

DEPARTMENT OF DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End Term Examination Part1, Dec-2022"

| SEMESTER | 1 | DATE OF EXAM | 16.01.2023 |
|----------|----------------------|--------------|---------------|
| SUBJECT | Introduction To | SUBJECT CODE | CSH109B-T |
| NAME | Information Security | | |
| BRANCH | CSE (CSTI) | SESSION | I |
| TIME | 9.00 to 12.00 | MAX. MARKS | 100 |
| PROGRAM | B.Tech | CREDITS | 4 |
| NAME OF | Mr. Sujeet | NAME OF | Dr. R. GIRIJA |
| FACULTY | - | COURSE | |
| | | COORDINATOR | |

Note: Part A: All questions are compulsory. Questions will be of short answer type (2 Marks).

Part B: All questions are compulsory. Questions will be of short answer type and brief answer type(2,4 Marks).

Part C: All questions are compulsory. Questions will be of descriptive type or scenarios based. Each question will be of (10 Marks).

Part D: All questions are compulsory. Questions will be of descriptive type or scenarios based. Each question will be of (10 Marks).

| Q.NO. | QUESTIONS | M A R K | CO ADDRESSE D | BLOOM'S HEVEL | PI |
|-------------------|---|------------------|---------------------|------------------|-------|
| P A R T- | What do you understand by Discretionary Access Control (DAC). Explain with the help of examples. | 2 | CO4 | L1,L2 | 1.2.1 |
| 1 1(6) | Differentiate between white hat hacker and black hat hacker. Explain each with the help of real life scenarios. | 2 | CO3 | L2,L3 | 1.4 |
| 1(c) | | | | - | , |

| | | What are the difference between active attack and passive attack? Explain in detail. | | CO1 | L1,L2 | 1.2 |
|-------------------|--------------|---|-----|-----------------|------------------|-------|
| | 1(d) | What are the difference between moral, Ethics and Law? Explain with the help of example. | . 1 | CO2 | L2,L3 | 1.4 |
| | 1(e) | Explain the term cyber stalking with the help of real life case scenario. | 2 | CO2 | L1,L2 | 1.3 |
| | 2(a) | What do you understand by sociology of cyber criminals? Explain with the help of case study. | | CO2 | L2,L3 | 1.4.1 |
| | 2(b) | Write short note on IT Act 2000 and Amendments. | 2 | CO2 | L1,L2 | 1.2.1 |
| PA RT -2 | 2(c) | Define parkerian hexad in terms of information security. Explain with help of real-world scenarios. | 1 | CO1 | L2,L3 | 1.3.1 |
| | 2(d) | What do you understand by Botnet and Script kiddies? Explain both with the help of case study. | 4 | CO2, CO3 | L2, L3 | 2.1.1 |
| P A R T- | 3(a) | What are the different domains of cyber security? Give real life examples to support your answer. Which domain will you prefer? | 10 | CO2 | L3, L4 | 2.1.1 |
| T- 3 | | Discuss the term social engineering? What are the different types of social engineering? What are the counter measure we can take to overcome this issue? | | | | |
| | 3(b) 3(c) | Write down and explain each of the | 10 | CO2, CO3 CO3 | L3, L4 L2, L3 | 2.3.1 |

| | | below mentioned terms: ✓ Fraud ✓ Copyright ✓ Defamation ✓ Harassment and Stalking ✓ Trade Secrets | | | | |
|-------------------|------|--|----|----------|--------------|-------|
| | 3(d) | What do you understand by Denial Of Service Attack, Email Bombing and Email Spoofing? Explain each with the help of IT Act 2000 and Amendments. | | CO2, CO3 | L3, L4 | 1.2.2 |
| | 4(a) | Explain different types of hackers in cyber security. Provide a real-life example to support your answer. | | CO3 | L3, L4 | 1.4.1 |
| | 4(b) | Explain different job roles available in the field of information security. Which job is suitable for you and why? | | CO2 | TO TO | |
| P A R T- | 460 | Explain the different types of attacks in information security. Support your answer with the help of example. | 10 | CO2 | L2, L3 | 1.2.1 |
| 4 | 4(c) | There is a web application running on which Nmap scan has been performed and it gave us host name which is Darren@hunt and got two open ports 80, 22. According to the given | 10 | CO3 | L3, L4 | 2.4.1 |
| | 4(d) | information, What will be the further steps to get an access of the web server? Please assume the missing data. | 10 | CO4 | L3, L4 | 2.4.2 |



DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End-Term Examination, January -2023"

| SEMESTER | I | DATE OF EXAM | 16.01.2023 |
|--------------------|---|-------------------------------|-----------------|
| SUBJECT NAME | Digital product Engineering & Design Thinking | | (CSH105B-T) |
| BRANCH | CDF | SESSION | 2022-23 (1) |
| TIME | 9:00 AM-12:00 Noon | MAX. MARKS | 100 |
| PROGRAM | B.TECH | CREDITS | 4 |
| NAME OF FACULTY | Dr Sanjay Singh, | NAME OF COURSE COORDINATOR | Dr Sanjay Singh |

| Note: Part A: All questions are compulsory. Questions will be of short answer type (20 Marks), Part B, C,D: Questions will be of descriptive type or numerical. | | | | | | | |
|---|-------|--|-------|---------------------|----------------------|-------|--|
| | Q.NO. | QUESTIONS | MARKS | GO ADDRES SED | BLOO M'S LEVEL | PΙ | |
| | 1(A) | The Product manager was first referred to as during the 1930? | 2 | CO1 | BT1 | 1.2.1 | |
| | 1(B) | Design Thinking is: | 2 | CO2 | BT1 | 1.2.1 | |
| PAR | 1(Ċ) | What are the steps of the design thinking process? | 2 | CO2 | BT2 | 1.2.1 | |
| T-A | 1(D) | What does North Star mean in Product? | 2 | CO2 | BT1 | 1.2.1 | |
| | 1(É) | Fill in the blank: "Before we start charging our customers for the app, we are going to first give them our" | 2 | CO1 | BT1 | 1.2.1 | |
| | 1(F) | is one of methods to define a problem statement. | 2 | CO2 | BT1 | 1.2.1 | |

| | 1(G) | Write the method that are used for shortlisting ideas for prototyping? | 2 | CO1 | BT1 | 1.2.1 |
|------------|-------|--|--------------|------------|-----|----------|
| | 1(H) | What is the primary purpose of capability Maturity Model? | 2 | CO1 | BT1 | 1.2.1 |
| | 1(1) | Integrating with another company that supplies the raw material for manufacture of its product is called? | 2 | CO1 | BT1 | 1.2.1 |
| | 1(J) | Design Thinking typically helps in | 2 | CO1 | BT1 | 1.2.1 |
| | Q2(A) | What are the stages in Design Thinking? Explain in detail. | 10 | CO1 | BT2 | 2.1.2 |
| PAR T-B | 2(B) | What Is the Product Development Cycle? | 10 | CO1 | BT2 | 2.1.2 |
| D | Q3. | Define iceberg model of system thinking. Apply iceberg model in context of software product development. | 10 | CO3 | втз | 2.1.3 |
| PAR | Q4. | Illustrate the nine components of business model canvas | 10 | соз | втз | 1.7.1 |
| T-C | Q5. | Demonstrate in detail the day wise plan of Design Sprint for solving a complex problem. Apply it in your choice of Business. | 10 | CO4 | ВТЗ | 2.8.2 |
| | Q6. | Explain the digital marketing framework. Analyze Digital Framework that can be applied to your business in detail. | 10 | CO4 | BT4 | 3.6.3 |
| PAR T-D | Q7. | Analyze UI & UX? Why UX need to be user centric? What are the different types of requirements? | 10 | CO5 | BT4 | 2.6.3 |
| | Q8. | Elaborate about Prototype, its types and the benefits. Detail about Evaluation and the performance of a product. | 10 | CO5 | BT5 | 2.7.2 |
| | | The second secon | n carrier of | en treside | | Lan Land |





DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End Semester Examination, December 2022"

| SEMESTER | I | DATE OF EXAM | 19.01.2023 |
|----------------|---------------------------------|--------------|--|
| SUBJECT | Programming for Problem Solving | SUBJECT CODE | CSH101B-T |
| NAME | using C | SCENET CODE | CSITIUID-1 |
| BRANCH | CSE/AIML/CDFD/CSTI/R&AI/ECE | SESSION | I (9:00AM - 12:00NOON) |
| TIME | 3 hrs | MAX. MARKS | 100 |
| PROGRAM | CSE/AIML/CDFD/CSTI/R&AI/ECE | CREDITS | 4 |
| NAME OF | Dr. Deepti Thakrab | NAME OF | Dr. Deepti Thakral |
| FACULTY | Dr. Manpreet Kaur | COURSE | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| | Dr. Parneeta Dhaliwal | COORDINATOR | (A) |
| | Ms. Chandni Magoo | | 1 Just |
| | Ms. Kirti Aggarwal | | Ŭ |

| | 1715. Itil ti Aggai wai | - 1 | | | |
|-------|---|------|--------------|-------------------|---------|
| Note: | All questions are compulsory. | | | Manf | net Var |
| S. No | . QUESTIONS | MARK | CS CO ADDRES | BLOO SED LEVEL | M'S |
| | | | | | |
| Q1(a) | Differentiate between Structure and Union. | 2 | CO2 | BT1 | 1.4.1 |
| Q1(b) | What is an identifier (variable)? What are the rules to construct an identifier? | 2 | CO1 | BT2 | 1.4.1 |
| Q1(c) | Differentiate between malloc and calloc. | 2 | CO3 | BT2 | |
| Q1(d) | Write an algorithm to find the largest of three numbers. | 2 | CO1 | BT3 | 2.1.3 |
| (l(e) | Explain the functionality of (i)sizeof() (ii) goto | 2 | CO1 | BT3 | 1.4.1 |
| Q1(f) | A structure BOOK is declared as struct BOOK { char title[50]; char author[40]; float price; | 2 | CO2 | BT2 | 1.4.1 |
| | }b1; Find the memory occupied by structure variable b1? | - | | - | |
| 1(g) | Differentiate between a function declaration and function definition with example. | 2 | CO1 | BT2 | 1.4.1 |
| 1(h) | Describe the use of case control structure (switch) with syntax and example. | 2 | CO1 | BT2 | 1.4.1 |
| 1(i) | Differentiate between Pre and Post increment operator. | 2 | CO1 | BT2 | 1.4.1 |
| | Find the output of the following code snippet: void main () { int x = 124, y = 139, z = 145; z = x + y; y = z - y; x = z - y; printf ("\n%d %d %d", x, y, z); | 2 | CO1 | BT3 · | 2.1.3 |
| | } | | | | |

| 02 | \ 0 :: | | | | |
|----|---|---|------------|-----|--------------|
| Q2 | a) Consider a scenario of a Hotel structure with data members Hotel_name, Hotel_id Location, Price_of_accom. Create a structure and display the information for 3 hotels | |) CO2 | ВТЗ | 2.1.3 |
| | b) What is Recursion? WAP to find the sum of n numbers using recursion. | f | CO2 | BT2 | 2.1.3 |
| Q3 | a) Consider two strings A[10]= "I am doing fine" and B[10]=" How are you doing". Perform the following operations using inbuilt functions of strings. | |) CO3 | ВТ3 | 2.1.3 |
| | i. Calculate the length of the two strings. ii. Create a new string variable and copy the data from string A. iii. Compare string A and B and print the comparative result. | | PAS. | | <i>: -</i> . |
| | b) Write a program to print the following pattern ** ** *** **** | | CO1 | BT3 | 2.1.3 |
| | c) Write an algorithm to search an element in an array using Linear Search. Also explain the steps using an example. | • | CO2 | ВТЗ | 2.1.3 |
| Q4 | a) Find the output: #include <stdio.h> int main() { int a=10 h=20 *** == 0</stdio.h> | (4+6+10) | CO3 | BT2 | 2.1.3 |
| | int a=10,b=20,*p,s=0; p = &a a++; (*p)++; s = a + b + *p; printf("a=%d, b=%d\n", a,b); printf("sum is %d\n",s); return 0; } | | | | |
| | b) What are Pointers? What are the benefits of using pointers? Explain with an example. | | CO3 | BT2 | 1.4.1 |
| | c) Why is call by reference method preferred over call by value method in functions when swapping two variables? Explain with a code to swap two numbers. | | CO3 | BT2 | 1.4.1 |
| | a) Explain any 5 different operations performed on a file with the help of an example. b) Write a program to add two matrices. | (10+10) | CO4 CO2 | ВТ3 | 2.1,3 |
| | . The same two matrices. | | 002 | BT3 | 2.1.3 |



MANAV RACHNA

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DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End Semester Examination, December 2022"

| SEMESTER | I | DATE OF EXAM | 19.01.2023 |
|--------------------|---|----------------------------------|---------------------------|
| SUBJECT NAME | Programming for Problem Solving using C | SUBJECT CODE | CSH105B-T |
| BRANCH | BSc (Phy./Chem./ Maths) | SESSION | I (9:00AM - 12:00NOON) |
| TIME | 3 hrs | MAX. MARKS | 100 |
| PROGRAM | BSc (Phy./Chem./ Maths) | CREDITS | 4 |
| NAME OF FACULTY | Dr. Shalu | NAME OF COURSE COORDINATOR | Dr. Shalu |
| ote: All questions | are compulsory. | | Manfauth |

| S. No. | QUESTIONS | MARKS | CO ADDRESSED | BLOOM'S | PI |
|--------|---|-------|-----------------|---------|-------|
| Q1(a) | Using an example, demonstrate the two fundamental | 2 | CO1 | BT1 | 2.2.4 |
| | forms of control statements in C. | | | | |
| QI(b) | What are four stages of compiling a C Program? | 2 | CO2 | BT2 | 2.1.2 |
| Q1(c) | Illustrate entry and exit loop statements in C with example. | 2 | CO1 | BT2 | 3.1.2 |
| QI(d) | Write an algorithm to find out largest of three numbers. | 2 | CO2 | BT2 | 3.1.2 |
| Q1(e) | Find the output of the following code snippet: void main(){ int a=125; printf("\n %d",a>>3); printf("\n %d",a<<3); | 2 | CO2 | BT3 | 3.1.2 |
| Q1(f) | Give the output of the following C code: main () float x=3.2, y=3.1; switch (x>y) case1: printf ("ADOBE SOFTWARE"); break; } | 2 | CO4 | BT3 | 2.2.4 |

| Q1(g | Differentiate between C | | | | |
|-------|--|---------------|----------|------------|-------|
| | function prototyping with examples | | CO3 | BT2 | 2.1.2 |
| Q1(h | What are the advantages of binary search over linear search? | 2 | CO4 | BT2 | 3.1.2 |
| QI(i) | ent out out the and tost increment? | 2 | CO2 | BT2 | 2.1.2 |
| Q1(j) | I The state of the following code simple. | 2 | COI | BT3 | |
| | void main () { int $x = 124$, $y = 139$, $z = 145$; | - | 001 | Б13 | 4.1.2 |
| | z = x + y; | | | | |
| 11 | y = z - y; | | | | |
| | x = z - y; printf ("\n%d %d %d", x, y, z); | | | | × |
| | | | | | |
| Q2 | a) Elucidate the importance of declaration in C | (10+10) | CO2 | ВТЗ | 3.1.2 |
| | programming language. How declaration different | V 100 30.00 0 | , | 1513 | 3.1.2 |
| | from initialization in C. Support your answer with | | | | |
| | suitable example. | | | | |
| | | | | | |
| | b) Write a program to find whether the string is | | CO3 | ВТ3 | 3.1.2 |
| | palindrome or not? | | | 1 | |
| Q3 | a) Differentiate between and O | - | | | |
| | with example? | (10+10) | CO2 | BT2 | 3.1.2 |
| | wan example? | | | | |
| | 1) 11/12 | *5 | | | |
| | b) WAP to find n power m with the help if recursion | | CO2 | BT3 | |
| | i.e., n, m -> n ^m | | | | 1 1 |
| Q4 | a) Explain the usage of the following string functions | (10+10) | CO3 | BT2 | 2.1.2 |
| | with the help of suitable examples: | | 5-2-7 Th | 1512 | 2.1.2 |
| | i. strcmp() | - | | 1 | |
| | ii. strcpy() | | | | |
| | iii. strlen() | | | | |
| | · | | | | |
| | b) Differentiate between Array and structure? | | CO4 | | 1.1.2 |
| Q5 | a) Check Whether a Number is Positive or Negative (1) | | CO3 | BT2 BT3 | |
| | or Zero. | 20110) | 003 | B13 | 2.1.2 |
| | | | | | |
| İ | b) Write a program in C to imput marks od student in | | | | |
| 11 | 2 subjects, student is pass if marks in both subjects | 1 | CO2 | BT3 | 1.4.2 |
| | are greater than 50 otherwise fail. | | | | |
| | | | | | |



"End Semester Examination, Jan' -2023"

Semester: 1

Subject: Skill Enhancement-1

NAME:

Subject Code: CDO501 Roll No:..... Time: 60 Mins

Dt 74/11/2013

Sermag-I

Max Marks: 50

Branch: MBA-BA

Instructions: All questions are compulsory. Each question carries multiple options.

No negative marking. Calculator is not allowed. Answers are to be filled in the answer table only.

Answers written outside the answer table won't be considered.

Answer Table:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |

| Find the nun | nber of factors of 250? | | | |
|----------------------------------|-------------------------------|---|------------|---|
| A. 8 | B. 16 | C. 24 | D. 32 | |
| 2. Find the nun | nber of even factors of 34 | 0? | | |
| A. 8 | B. 6 | C. 4 | D. 2 | |
| Find the pro | duct of factors of 280? | | | |
| A. 28018 | B. 280 ²⁴ | C. 280" | D. 280° | |
| 4. Find the sum | of factors of 4004? | | | , |
| A. 40041 | B. 5444 | C. 9000 | D. 9408 | |
| 5. Find the num | nber of prime factors of 2 | 187? | | |
| A. 1 | B. 2 | C. 4 | D. 8 | |
| 6. How many fa | actors of 27 * 36 * 52 * 92 * | 102 are multiples of 183 | Ý | |
| A. 496 | B. 480 | C. 405 | D. 505 | |
| 7. Find the sum | of even factors of 370? | | | |
| A. 656 | B. 456 | C. 756 | D. 750 | |
| 8. Find the unit | digit of 2125 * 784125 * 58 | 3265867 | | |
| A. 2 | B. 0 | C. 6 | D. 8 | |
| 9. Find the last | digit of 554782 * 983581? | | | |
| 8 .A | B. 1 | C. 6 | D. 3 | |
| 10. Find the uni | t digit of (257445 + 8811158) | * (323 ⁸²⁵ + 445 ⁹⁵⁴)? | | |
| A. 0 | B. 1 | C. 2 | D. 4 | |
| 11. Find the las | t digit of (276122 • 126447) | 7 | | |
| A. 0 | B. 6 | C. 2 | D. 3 | |
| 12. What perce | nt of 50 are 90? | | | |
| A. 125% | В. 150% | C.175% | D. 180% | |
| 13. If y exceeds | x by 125%, then x is less | than y by? | | 6 |
| A. 44.44% | B. 55.55 % | C. 66.66 % | D. 77.77 % | |
| 14. How much | 75% of 60 is greater than | 75% of 207 | | |
| A. 80 | B. 30 | C. 50 | D. 20 | |
| | | | | |

| 15 How much is 80% | of 140 is greater than 4/ | 5 of 802 | |
|---------------------------|------------------------------|--|------------------------------------|
| A. 48 | B. 36 | C. 49 | D. 32 |
| 16, 40% of a number (| s more than 60% of 650 | | |
| A. 1650 | 8.1640 | C 1450 | D. 1440 |
| 17: 50% of a number i | s added to 280, the resu | | |
| A. 560 | 8.570 | C 580 | D. 590 |
| 18. 50 is subtracted fr | om 50% of a number, the | | |
| A. 150 | B 200 | C. 250 | D. 300 |
| 19. What is the fractio | | | |
| A. 2/9 | 8. 1/13 | C. 2/13 | D. 5/9 |
| 20. What is the fractio | | , | |
| A. 2/9 | 8. 4/7 | C. 5/7 | D. None of these |
| 21. What is the fractio | n value of 30.76%? | | |
| A. 4/7 | 6. 3/8 | C. 3/7 | D. 4/13 |
| 22. Two numbers are | | John College C | tier. The percentage that is first |
| of the second is? | | | |
| A. 82.82% | B. 85.85% | C. 89 28% | D. 57.76% |
| 23. The salary of a typi | ist was at first raised by 2 | 20% and then the same w | vas reduced by 25%. If he |
| | 0.What was his original s | | |
| A. 450 | B. 600 | C. 540 | D. 750 |
| 24. A candidate got 63 | % of the votes polled an | d he won to his rival by 4 | 680 votes. How many votes were |
| cast? | 9 | | |
| A. 15000 | B. 18000 | C. 17000 | D. 16000 |
| 25. A fruit seller had so | ome apples. He sells 60% | apples and still has 420 | apples. Originally, he had: |
| A. 1000 | B. 1100 | C. 1050 | D. 1500 |
| 26. An engineering stu | dent has to secure 35% i | narks to pass. He gets 11 | 8 marks and fails by 22 marks. |
| | hat can be obtained by h | 47. | |
| A. 300 | B. 400 | C. 350 | D. 500 |
| | 12 pens is equal to the se | elling price of 8 pens, the | gain percent is ? |
| A. 12% | B. 30% | C. 50% | D. 23% |
| | f 20%, 20% and 40% is ed | qual to a single discount | of |
| A. 50% | B. 61.60% | C. 61% | D, 66.8% |
| | | | a profit of 25%. What does he |
| | e marked price is ₹800? | | |
| A. 492 | B. 800 | C. 512 | D. 640 |
| | | | or Rs.40. What was his profit |
| percentage? | , | | • |
| 14.28% | 8. 7.14% | C. 21.85% | D. 47.78% |
| | | | vering 4 km. Finally, He moved 3 |
| | nen again 1 km west. Ho | | |
| 10 km | 8. 9 km | C. 2 km | D. 4 km |
| 2. A man went 10 kms | towads South. Then tur | ned East and covered 10 | kms and turned to the right. |
| lgain after 10 kms, he | turned to left and covere | ed 10 kms to reach the d | estination. How far is he from his |
| tarting point? | | | D 201 |
| 18.8 km | B. 28.28 km | C. 16 km | D. 20 km |

| 33. Rajesh's school bi | us is facing North when r | eaches his school. After: | starting from Rajesh's house, it |
|--------------------------|--|------------------------------|--|
| turning twice right ar | nd then left before reach | ing the school. What dire | ection the bus facing when it left |
| the bus stop in front | of Rajesh's house? | and the second of the fact | creative barriery, which is tell |
| A. East | B. North | C. South | D. West |
| 34. Anil wants to go t | he university. He starts fo | com his house subjects to it | the East and comes to a crossin |
| The road to his left er | nds in a theatre straight | about is the beental to | which direction is the University |
| A. East | B. North | anead is the hospital. In | |
| | | C. South | D. West |
| A. North | mes North, North-East b | ecomes West and so on | , what will West become? |
| | B. East | C. South-East | D. North-West |
| and walks 1 km | towards East and then h | ne turns to South and wa | ilks 5 km. Again he turns to East |
| and walks 2 km, after | this he turns to North an | d walks 9 km . Now, how | far is he from his starting point? |
| A. 10 km | B. 9 km | C. 5 km | D. 4 km |
| 37. I am facing South. | I turn right and walk 20 | m. Then I turn right again | n and walk 10 m .Then I turn left |
| and walk 10 m and th | en turning right walk 20 | m. Then, I turn right aga | in and walks 60 m. In which |
| direction am I from th | ne starting point? | | |
| A. North-East | B. North-West | C. North | D. West |
| 38. Pointing to a girl i | n the photograph, Umesl | h said. "Her mother's bri | other is the only son of my |
| mother's father." How | v is the girl's mother rela | ted to Umesh? | other is the diny soll of my |
| A. Mother | B. Sister | C. Aunt | D. Grandmother |
| 39. X introduces Y say | ing "He is the husband o | | he father of my father". How is Y |
| related to X? | and the state of t | the BrandondEnter Of t | he lather of my lather . How is Y |
| A. Brother | B. Son | C. Brother-in-law | D. Nonhau |
| | | the daughter of the ent- | D. Nephew child of my grandmother." How |
| the woman related to | Manish? | the daugnter of the only | child of my grandmother." How |
| A. Sister | B. Niece | C. Cousin | |
| | | | D. Data inadequate |
| was the woman relate | on, a man said to a wome | an, his mother is the on | ly daughter of your father." How |
| A. Aunt | | c we | |
| | B. Mother | C. Wife | D. Daughter |
| A Father | rs. M and N are sisters. K | | |
| A. Father | | C. Grandfather D. Und | |
| 43. Pointing to a perso | on, Deepak said, "His only | y brother is the father of | my daughter's father". |
| How is the person rela | | | |
| A. Father | B. Grandfather | | D. Brother-in-law |
| 44. Pointing to a photo | ograph Anjali said, "He is | the son of the only son | of my grandfather." |
| | photograph related to A | njali? | |
| A. Brother | B. Uncle | C. Son | D. Data is inadequate |
| 45. Amit said - "This g | irl is the wife of the gran | dson of my mother". Ho | w is Amit related to the grl? |
| A. Brother | B. Grandfather | C. Husband | D. Father-in-law |
| 46. If VICTORY is coded | d as YLFWRUB, how can ! | SUCCESS be coded? | |
| A. VXEEIVV | B. VXFFHVV | C. VYEEHVV | D. VYEFIVV |
| 47.In a certain code, T | | | ode, PAROLE will be written as |
| A. NCPQJG | B. NCQPJG | C. RCPQJK | D. RCTQNC |
| | en as MYMYMY, how wil | | |
| A. TIATIATIA | | C. IATIATIAT | |
| | | | D. ALDALDALD |
| A. EDRIRL | as HUMITK, how is CAND | | |
| | B. DCQHQK | C. ESIFME | D. FYOBOC |
| | EL is coded as BITIRAK, h | | |
| A. EOHYZK8B | B. FOHYZIBB | C. FPHZZKAB | D. HOHYBJBA |

Hanu.



Career Development Centre

"End Semester Examination, Jan' -2023"

Subject: Professional Communication-1

Semester: 1

NAME:....

| | | DO105 | | Tim | ie: 60 Min | | | tion: | | |
|----------|------------|-----------------------------|--|------------------|-------------|-------------|---------------|------------------------|-----------|--|
| | | ion/LAW | | | (AAH- | 10-1111) | Roll | No | | |
| ðt | 24/01/ | 2.23 | Seasion - | J. | | | | | | |
| negative | e markir | ng. Calcul: | ns are com ator is not tside the a | allowed | Answers | are to be | filled in t | | | |
| Answer | Table: | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | |
| | nication | in the wo | inguage is orld. Spanish | | | | | | onal | |
| Q2. Lea | rning Er | iglish will ! | be invalua | ble in both your | | | and | and professional lives | | |
| A] Form | ral | B) | Personal | C] General | | | D] Public | | | |
| Q3 | | | is a term e | exclusive | to English | h Spoken | by a partio | cular local | ity. | |
| A] India | nism | B) | Neutral | | C] Locali | sm | D] His | nglish | | |
| | | fers to the n a local la | e way a ser anguage. | ntence h | ias been st | tructured | as if it wa | s literally | | |
| A] taker | n | B] | Spoken | | C] used | | D] tra | inslated | | |
| Q5. Wh | at is you | ır ı | narr | e? This | is a typica | l thought! | ess transl | ation fron | n Hindi – | |
| | | aam kya h | | | | | | | | |
| A] good | | B] | B] bad | | | C] ugly | | D) beautiful | | |
| Q6. Wh | en one | completes | one's deg | ree at a | | | | ution, they from | | |
| | | | ot, "pass o | | | | | | | |
| A] mast | er's | B) | graduate | | C] tenth | | D] Hij | gh school | | |
| Q7. Birt | h and B | erth is a cl | assic exam | ple of_ | | | | | | |
| A) anto | nyms | B) | synonyms | | C] homo | phones | D] loc | alism | | |
| Q8. Wo | rds that | have sam | e pronunc | iation, b | ut differe | nt spelling | and diffe | erent mea | nings are | |
| called_ | | | | | | . , | | | | |
| A] home | ophones | . B] | antonyms | | C] synon | yms | D] hor | mographs | | |
| Q9. Wh | ich of th | e sentenc | e is correc | t: | | | | | | |
| A] Arna | v likes to | rap, nap | and eating | snacks | . В | Arnav lik | es raping. | nap and | snacking. | |
| C] Arna | v likes to | rap, nap | and snack | | | | | g and eat | - | |
| Q10. Pa | rallelisn | is used w | vith eleme | nts in lis | | | | | | |
| | | | airs, or in g | | | | - 0.0 - 1.0 m | | | |
| A) serie | | | disorder | | C] progra | mme | D) site | om | | |

| Q11. Parallelism is u | ised with elements join | and bu | words. For example, the |
|-----------------------|-------------------------|--------------------------|-------------------------------|
| teacher wants his st | udents not only to kee | in quiet but also to do | the task. |
| A] joining | B] linking | Cl faulty | D1 difficult |
| Q12. Tautological Er | Tot is the error of " | " It is | the error of writing the same |
| thing twice. | | | |
| | B] repeating | Climportant | DI multiple |
| Q13. A | _ is a word, phrase, or | r clause that adds det | ail or description to a |
| sentence. | _ is a word, pinase, or | Clause that adds det | |
| Al order | B] modifier | Claltar | D1 static |
| | | | n called |
| modifiers. | s, or clauses that are | out or place are one | |
| | B] in place | Cl misplaced | DI disorder |
| | hould be made betwee | | |
| Al different | B] not in order | Clinappropriate | D1 similar |
| O16 Fouris used ha | fore the | nouns while less is u | sed before the uncountable |
| | fore the | _ Hours while less is a | aco perore the |
| nouns. | D1 sountable | Cliplonty | D] scanty |
| | B] countable | | D) scarry |
| Q17. Collective nour | ns usually take a | Cl definite | D] indefinite |
| | B] plural | | DI indemite |
| | separated by and take | | D] indefinite |
| A] singular | B] plural | C) definite | • |
| Q19. Titles of books, | , novels, e | etc. are treated as sing | Dl animation |
| | B] pictures | | DJ animation |
| | ens laid eggs. | | DI manu |
| | B] have | C] has | D] many |
| Q21. Only af | fects the verb. | -1 | DI management |
| A) subject | B] predicate | CJ noun | D] pronoun |
| | is derived from Latin | | means |
| | B] time | | DJ thing |
| | red abroad for five yea | rs. | D) (6 |
| A] have | B] has | C] is | |
| Q24. Word Classes | the wa | lys in which a word ca | in be used in grammar. |
| | B) describe | C] summarize | D) elaborate |
| Q25. There are | major word classes. | | |
| A] 5 | B] 6 | C] 7 | D] 8 |
| Q26. There are nouns | for things that don't p | physically exist are cal | led nouns. |
| A) abstract | B] proper | C) common | - |
| Q27. The words that o | describe nouns and tel | I you more about the | m is called |
| | B) adjective | | D] verb |
| Q28. Verbs describe _ | | | |
| A) action | B] reaction | C] in action | D] no action |
| 229. The person or th | ing that does the actio | n of the verb is the _ | It always |
| comes before the vert | | | |
| | B] adverb | C] subject | D] predicate |
| | | | g is done. Adverbs are |
| nostly connected to v | | | |
| | | C] more | D) many |
| | ategorized into manne | • | |
| | Bl space | | |

| 132. Words used inste | ad of a noun are calle | ed . | |
|------------------------|--------------------------|--------------------------|------------------------------------|
| \] verb | B] adverb | Cl adjective | D) pronoun |
| Q33. We use prepositi | ons to show how diffe | erent relate | to each other in a |
| sentence. | | | |
| A) noun | B] verb | Cl adverb | D] conjunctions |
| Q34. The children are | | | |
| A] on | Bl in | C] at | D] to |
| Q35. Some sentences | are simple and give o | ne idea. To join more t | than one idea together in |
| the same sentence, w | e use | to link the ideas. | |
| A] interjections | B1 prepositions | Cleoniunctions | D] pronouns |
| Q36. An | is a single word t | hat expresses a though | nt or feeling. |
| A] conjunction | Bl pronouns | Cl preposition | D] interjections |
| Q37. Attitude change | | | |
| A] something | B) few things | C] nothing | D) everything |
| Q38. Cognitive, | and behavi | our are the 3 compone | ents of attitude. |
| A] emotional | B) spiritual | C] Intellectual | D] physical |
| | | is an inborn attr | |
| A) emotion | B] behaviour | C] physical | D] psychological |
| Q40. There are | | | |
| A] 5 | B] 4 | C] 3 | D] 2 |
| Q41 | ehaviour helps maint | ain positive inter- pers | onal relationships. |
| | B] angry | | D] rude |
| Q42. Learn to respect | other's time. Use | language. | e . |
| A) negative | B] appropriate | C] unsuitable | D) not good |
| Q43. Social intelligen | ce includes reading | cues. | No. |
| A) non verbal | B] spoken | C] talking | D] ignoring |
| Q44. Tact, timing, and | d trust describe | intelligen | ce. |
| Al spiritual | B] common | C] emotional | D) special |
| Q45. Saying thank yo | u, please, speaking po | sitively about others, b | peing a good listener and |
| often, | contribute to social gra | ace. | |
| A) gossiping | B] whining | C) rude | D] smiling |
| | | action, job performanc | e, organizational |
| | outcomes of | | 01: |
| A) inclusion | B] exclusion | C] diversity | D) integrity |
| | harassment is where t | he person is subjected | to annoying behaviour |
| while working. | | Cl - Alla | Diwartelasa |
| A] party | B) personal | C] public | D] workplace |
| Q48. Gender | | quality between people | |
| A] inclusion | B] discrimination | C) acceptance | D) behaviour |
| Q49. | | | ally challenged people. D) simple |
| A] problem | B) help | C) stereotyping | D) simple |
| Q50 | influences results. | C] thought | D] mindset |
| A) fixed | B) negative | CI thought | D) minuset |

Dy. Director Col



Career Development Centre

"End Semester Examination, Jan' -2023"

| Semester: 1 | Subjec |
|----------------------|--------|
| Subject Code, CDO105 | Subjec |
| Branch: Engineering | |

t: Professional Communication-I Time: 60 Mins

Section Roll No.-

Max Marks - 50.

ct 24/01/3.23

NAME

Semon I Instructions: All questions are compulsory. Each question carries multiple options. No negative marking Calculator is not allowed. Answers are to be filled in the answer table only. Answers written outside the answer table won't be considered.

Answer Table:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |

| How a person thinks or feel | s about something is called his | | |
|---|---|-----------------------------|--------------------------|
| A. Behavior | B Attitude | Courtesy | D. Chivalry |
| 2. Feelings, sentiments and m | oods of emotions are represented by wh | ich component of attitude | a? |
| A. Cognitive | B. Behavioral | C. Emotional/ Affectiv | |
| 3. Factors affecting the forma | tion of attitude are: | or Emotionary Princetin | c b. None of these |
| A .Intellectual development | | C. Ethical development | t D. All of these |
| 4. The predisposition that resu | alts in desirable outcomes for individuals | and organizations | t bird birding |
| A .Attitude | B. Positive Attitude | C. Negative Attitude | D. None of these |
| 5. The formation of attitudes | due to observance to one's own self is ca | illed | or rone of these |
| A. Exposure | B. Associative Learning | C. Self-Perception | D. Functional reasons |
| 6. Cognitive Dissonance is: | | | o runctional registris |
| A. Self-Perception | B. Change via internal discrepancy | C. Persuasion | D. None of these |
| 7. Showing good behavior, act | ions, and manners when one communi | cates while dealing with p | |
| A. Courtesy | B. Manners | C Behavior | D. Attitude |
| 8. The degree to which an emp | ployee is accepted and treated as an insi- | der by others in a work sy: | stem is called |
| A. Courtesy | B. Diversity | C. Inclusion | D. Chivalry |
| 9. Outcomes of inclusion are: | | | |
| A. Improved work relations | B. Job satisfaction | C. Both of these | D. None of these |
| 10. The biggest barrier for peo | ple with disability is how the society disa | ables them by way of: | |
| A. Disability discrimination | B. Gender Discrimination | C. Sexual Harassment | D. Racial Discrimination |
| 11. Bullying, inappropriate pro | mise of rewards in exchange of sexual fa | avors is called | |
| A. Disability discrimination | B Gender Discrimination | C. Sexual Harassment | D. Racial Discrimination |
| 12. The dress appropriate to v | year for interview or for a professional w | ork environment is | |
| A Party wear | 8.5 ports wear | C. Formal wear | D. Casual wear |
| 13. Best color for trousers to v | year in an interview would be: | | |
| A. White | B Navy Blue | C. Light Green | D. Purple |
| 14. The LGBTQ individuals face | a number of challenges because of: | | |
| A. Family expectations | B. Social Stigma | C. Discrimination | D. All of these |

| Professional behavior a | t workplace includes: | | |
|---|--------------------------------|--|-----------------------------------|
| . Civility | B. Courtesy | | to All of those |
| 6-Direction Read the follo | TWING sentence and will | € Social grice | D. Mill of These |
| I want to pursue my caree | er in advertising | the underlined part which is neither | a Noun rior a Pronounz |
| A I | | | |
| 17-Direction: Read the fol | B pursue | C career | D advertisement |
| The oringinal abuses between | lowing sentence and pick out | t the underlined part which is neither | r a Noun nor an Adjective |
| the family being any aky tie De | 20 the needy students. | | |
| A. principal | B. helped | C needy | D. students |
| 18-20Direction: Read the | following sentence and choo | se the correct option as to which par | ts of speech the <u>underline</u> |
| word is? | | | |
| 18. He is the fan of cricket | | | |
| A. Adverb | B. Pronoun | C. Preposition | D. Verb |
| Fruits and vegetables | are good for health. | | |
| | B Adverb | C. Interjection | D. Preposition |
| 20. The student wrote an | application to his teacher. | | |
| | B. Noun | C. Pronoun | D. Verb |
| | the correct form of tenses fro | | |
| 21.1 working | all afternoon and have just f | nished the assignment. | |
| | B. had been | | D. am |
| 22. Rohan th | e movie before he read the re | eview | 0 |
| | | C. had watched | D. was watching |
| 23. He in the | States but he still does not h | ave a command over the English lang | nave. |
| A. have been living | B. has been living | C. have lived | D. living |
| 24. "Shyam and his broth | ers" a famous su | veet shop in our neighbourhood. | D. HVIII. |
| A. are | B. have been | C. is | D. have |
| 25. You should not | | 6.13 | D. mave |
| A. assumed | | C. assume | D. assumes |
| | the correct form of Verbs from | | D. assumes |
| 26. The teacher | completed this chapter | The options given below. | |
| A. have | B. has | C. is | D. are |
| 27.Ram and Shyam | business partners. | | o, me |
| A. have | B. has | C. are | D. had |
| 28. She her of | | C. 0/C | D. Had |
| | B. reaches | C. reached | D. reaching |
| | s also invited to | | D. reaching |
| | B was | | D. were |
| 30. Neither you nor your | | them. | D. Were |
| A. talk | B talks | C. talked | D. talking |
| 31-32 Decide whether th | e sentence has parallelism or | | D. tarking |
| | her job and travelling the wor | | |
| A. Parallel | B. Not Parallel | C. Can't say | D. None of these |
| 32. He started the engine | e, released the hand break, an | d checked the mirror | o, None of these |
| A. Parallel | B. Not Parallel | C. Can't say | D. None of these |
| 33-34Read the following | questions and choose the cor- | rect options from the options given b | elow |
| 33.Which of the following | g sentences is correct? | the options given b | riow. |
| A. Mia likes playing tudo | , carroms, and chess. | B. Mia likes playing Ludo, play carr | oms, and to play chare |
| | carroms, and playing chess. | D. Mia likes playing Ludo, carroms, | and play chess |
| 34. Arnal has | | programme, carrolling, | and play thess |
| A. a car, a bike, and a cyc | ile. | B. a car, a bike, and she has a cycle. | |
| C. a car and a bike, and s | | D. None of the above. | |
| 35. In a group discussion | , one must communicate with | | |
| A. Hostility | B. Ignorance | C. Courtesy | D. Arrogance |
| | | | because of the section. |

| O, Willest of the sections | ne average a m a Broads anscossion. | | |
|----------------------------|---|---|--------------------------------|
| . Speaking Facts | Counter questioning | C. Speaking with clarity | D. Speaking on the topi |
| 37. In a group discussion | on a person who begins the discu | ssion is called | |
| A. Initiator | B. Starter | C. Beginner | D) Moderator |
| 38. In recruitment, Gro | up Discussion is used as a tool of | : | |
| A. Presentation | B. Workshop | C. Lecture | D. Elimination |
| 39. Which of the following | ng is incorrect way to initiate your se | elf-introduction? | |
| A. Lam | B. My name is | C. Myself | D. None of these |
| 40. What is Self- introdu | ction? | | |
| A. Your one minute self- | sales pitch for the interviewer | B. Your personality descript | tion |
| C. Description of daily re | outine | D. Description of family info | ormation |
| | ing greeting is inappropriate in forma | I introduction? | 4 |
| A. Hello | B. Good Morning | C. Hey, What's up? | D. None of the above |
| | ing CANNOT be considered as a good | | |
| A. Speak slowly so as to | | B. Listen to what other pers | on has to say |
| | are unable to hear the other speaker | | |
| | te grooming tip for an interview sho | | |
| A. Take care of the bod | | B. Display of tattoos to give | contemporary look |
| C. The arms of the shirt | (1) | D. None of the above | contemporary room |
| | ou find someone not able to speak in | | |
| | | B. Invite the person to put f | orward his/her views |
| A. Utilize this opportun | | D. All of the above | orward myner views |
| C. Make fun of the per | | | |
| | well-practiced Self Introduction helps | | mm well tower ate |
| | iswer with poise and confidence. | B. Do away with fillers like t D. All of the above | imm, well, I guess etc. |
| | tion for the rest of the interview. | | |
| A. Resounding Phonet | f phonetics apart from articulatory, ac | B. Auditory Phonetics | |
| C. Assimilatory Phone | | D. None of them | |
| | ng about yourself" should be answ | vered with | 1 |
| A. Telling about you | | B. Talking about your are | as of improvement |
| | out your education, industrial train | | |
| D. None of the above | | 344 | |
| 48. Variation in a lan | iguage done by native speaker of t | he language is called | |
| A. Dialect | B. Accent | C. Tone | D. None of these |
| 49. Variation in a lang | uage by non-native speaker of the lar | | |
| A. Accent | B. Dialect | C. Tone | D. None of these |
| 50. Impure vowels are | called P. Managhthanar | C Both of them | D. N |
| A. Diphthongs | B. Monophthongs | C. Both of them | D. None of them |

Director - CDC

594



Career Development Centre

"End Semester Examination, Dec' -2022"

| | Code: CD6 | | ssional comp | | | | NAME: | | |
|--------------------|----------------------------|---------------------|---------------|-------------|--------------|---------------------------|-------------|-----------------------------|--------------|
| | arks 50 | 201 | | me: 60 Ma | ns ns Sea | No. II | Roll No. | STMEEC | T. |
| | | auestions ar | e compulsor | | | | | | |
| Calcula | itor is not all | lowed Ans | were are to h | e filled in | the answer | ship on to | Answers was | tegative in | e the answer |
| table w | on't be con | videred. | aces are no o | e juica in | ine answer i | aote only. | inspers by | men outsia | the answer |
| | | | | | | | | | 7 |
| Answe | r Table: | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| of exclud 4) 20 | ded person | is: | embers is 27 | 25 | f them is ex | C]7 cluded the C]35 | e average d | D]11 lecreases b D]45 | y 2. The age |
| A]9944 | | est 4 digit | | 9956 | | C1 2000 | | D1 9955 | |
| | | e followin | g can't be th | | | | | DI 3333 | 7 |
| A] 1282 | | | | 128248 | | C] 128242 | | DI 128248 | 1 |
| Q6.In ar | election b | etween tw | o candidate | s, one got | | | | | |
| invalid. was: | if the total | number of | votes was 7 | 500, the | number of v | alid votes | that the o | ther candid | late got, |
| A) 2700 | | | 8 | 2900 | 19 | C] 3000 | | D] 5000 | |
| Q7. Hov | w many fact | tors of 108 | 0 are perfec | t squares | | | | 0,000 | |
| A] 4 | | | | 17 | | C]5 | | D]6 | |
| Q8. A st maximu | tudent has t um marks a | to obtain 3 re : | 3% of the to | otal marks | to pass. He | got 125 n | narks and f | ailed by 40 | marks. The |
| A] 500 | | | B] 750. | | CJ550 | | D]850 | | |
| Q9. The | sum of a s | eries, 27+3 | 6+45+ | .+162 is 1 | 512. What | is the num | | | ries? |
| A]15 | | | 8]16 | | C] 12 | | D]10 | | |

| 210.If the product and H.C.F. | of two numbers are 41 | 107 and 37 respective | ly, then find the greater | |
|--------------------------------|---------------------------|--------------------------|------------------------------|------------|
| number | | | | |
| A] 111 | B] 135 | C]150 | D] 170 | |
| Q11 Pointing to a person, a m | | • | | How |
| was the woman related to the | | , | B , | |
| A]Uncle | B]Aunt | C]Father | D]Mother | |
| Q12. If Ranveer Singh finds th | | | | v manv |
| boys should be included in the | e line such that there : | are 30 hous in the line |) | * (1110)17 |
| A]10 | B]19 | C)12 | D]14 | |
| Q13.Krishna ranked sixteenth | | | | accod |
| an examination. Six boys did | not participate in the | competition and five for | illed in it. How many hour | isseu |
| there in the class? | not participate in the t | competition and five ra | nied in it. now many boys | were |
| A]48 | B)55 | C]65 | D]51 | |
| Q14. One morning after sunr | | | | |
| his right. To which direction | was he facing? | ng racing a pole. The si | radow of the pole fell exa | ctly to |
| A]South | B]North | ClEast | Distant | |
| Q15. Find the logarithm of 1 | - | C]East | D]West | |
| A]8 | B]9 | cic | D14 | |
| Q16. The unit digit in the pro | | C]6 | D]4 | |
| A] 2 | B]3 | | 015 | |
| Q17. Find the number of fac | - | C] 4 | D] 5 | |
| A] B | B) 5 | C] 7 | D1.2 | |
| Q18. K is 40 m South-West of | | | D] 3 | |
| A] South | B] East | C] North | | 7 |
| Q19. G is the grandfather of | | | D] West | |
| father of S? | 5, 5 has only two sons | c and i. A and b are to | ie only sons of G. Who is t | ne |
| A] A | B] B | C] E | DJF | |
| Q20. If A is the brother of B | | | now D is related to A2 | |
| A] Can't be determined | B] Sister | C] Uncle | D) Aunt | |
| Q21. During assembly the s | | | 21st in order from both th | |
| ends. How many boys are t | here in the class? | | 213t in order from both ti | ie |
| A] 40 | B] 41 | Cl 44 | D1 45 | |
| Q22. If Rocky finds that he | is 31st from the right in | | from the left, how many b | novs. |
| should be included in the li | ne such that there are | 60 boys in the line? | and the lett, the triality c | 043 |
| A] 7 | B) 8 | C] 20 | D] 12 | |
| Q23. How many 4's are the | re preceded by 7 but n | ot followed by 3? | | |
| 593217426974 | 613287413 | 8325674395 | 820187463 | |
| A) Four | B) Six | C) Two | Dl One | |
| Q24. How many such pairs | of digits are there in th | ne number 421579368 | each of which has as many | digits |
| between them in the numl | ber as when they are ar | rranged in ascending or | der? | |
| A) One | B) Three | C) Two | D] Six | |
| Q25. In a class of 50 stude | nts M is eighth from to | p. H is 20th from botto | m. How many students are | there |
| between M and H7 | | | | 7 |
| A] 18 | B) 20 | C] 21 | D] 22 | |
| | | | | |

| Q45. Personal approa | ch to handling time sould be de- | | | |
|------------------------|--------------------------------------|---------------------------|-------------------------|--------|
| and aiming for | ch to handling time could be devi | cloping a positive attitu | ide, ownership for tim | e loss |
| A) excellence | B) supremacy | C1 marie | D) perfection | |
| Q46. Handling time in | a better way helps reducing stres | s and increases | | 7 |
| A] creativity Q47, | B) problem | C] busyness | D) stress | |
| | is the first stage of team forma | tion. | | |
| A) storming | B] norming | C) forming | D) performing | |
| das, Humanity to oth | ners", is the English translation of | which ancient African v | vord? | |
| - Tonding | B) hakuna matata | Clewahii | DI motor | |
| Q49. Building bond, cr | eating understanding, trust, resol | vine conflict overcomit | na obstacles achievies | _ |
| growth together can b | e termed as a | ving connec, overcomin | ng obstacles, achieving | 5 |
| A) distance | B] team | C] class | 01. | |
| Q50. Ubuntu means th | ere is no ME without | Cl ciass | D] troupe | |
| A) you | | | | |
| m) you | B] her | C] him | D) them | |

Dy. Director CDC



DEPARTMENT OF Computer Science and Technology

"End Term Examination, December-2022"

| SEMESTER | III | DATE OF EXAM | 17/12/22 |
|--------------------|---|----------------------------------|------------------|
| SUBJECT NAME | Data Structures and Algorithms | SUBJECT CODE | CSH103B- T |
| BRANCH | CSTI, CDA, AIML | SESSION | L |
| TIME | 3 Hade 1 | MAX. MARKS | 100 |
| PROGRAM | B. Tech | CREDITS | 5 |
| NAME OF FACULTY | Dr. Hanu Bharadwaj, Ms. Meena, Dr. Harsh Bhasin | NAME OF COURSE COORDINATOR | Dr. Harsh Bhasin |

Note: All questions are compulsory

| Q | .NO. | QUESTIONS | MARKS | CO ADDRESSED | BLOOM'S LEVEL | PI |
|--------|------|--|-------|-----------------|------------------|-------|
| • | 1(A) | The details of employees of Manav Rachna University are to be maintained. However, some people may leave and some may join in the near future. You have been asked to suggest a data structure to store the records. What would you suggest: Arrays or linked lists? | | CO <u>1</u> | BT2 | 2.1.2 |
| PART-A | 1(B) | An array of length n is given to you. How will you need to insert an element at the second last position of this array? What is the complexity of this process? If instead of array, a linked list was given, what would have been the complexity? | 2 | CO1 | BT3 | 2.1.2 |
| | 1(C) | A sorted array is given to you and you need to search an element in the array. Suggest an algorithm to accomplish the task. What is the complexity of this algorithm? | 2 | | BT3 | |
| | 1(D) | Can you modify the above process to search an element from a given matrix? | 2 | CO1 | ВТ3 | 2.1.2 |
| | 1(E) | You are given a set of cards numbered 1 to 100. How will you sort them? State the complexity of the algorithm. | 2 | СО | BT2 | 2.1.2 |

| A STATE OF THE PARTY OF THE PAR | III PASCINESTANTAS | | - | | · · | 2 |
|--|--------------------|--|----|----|----------|-------|
| | | | | 1 | 1 | |
| PART-B | 2(A) | Write an algorithm to search an element from a singly lined list. Write the complexity of the algorithm. | 5 | СО | BT2 | 2.1.2 |
| Φ. | 2(B) | Write an algorithm to insert an element at the a) beginning and b) end of a doubly inked list. | 5 | CO | BT2 | 2.1.2 |
| | 3(A) | a) Write an algorithm to convert a given infix expression to post-fix. b) Convert the following expression to pre-fix and show each step: ((a+b) * (c-d))/e | | СО | | 2.1,2 |
| _ | | ((2.3) (2.2))/2 | 20 | CO | BT3 | |
| PART-C | 3(B) | a) Write an algorithm to implement two stacks using an array. b) Write an algorithm to implement doubly ended queue using linked lists. | 20 | СО | BT2 | 2.1.2 |
| | | a) Write the inorder, preorder and post order traversal of the following tree. | | | | |
| | 4(A) | b) Create an Binary Search Tree from the following numbers: 3, 5, 1, 7, 8, 2, 90, 21, 56, 45 i) Delete 7 from the above tree. ii) Insert 91 to the above tree. | 20 | СО | BT2, BT3 | 2.1.2 |
| PART D | 4(B) | a)What is the adjacency representation of the following graph. B B B B C B B C C B C C B C C | 20 | СО | BT2 | 2.1.2 |



DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End Semester Examination, December 2022"

| SEMESTER | Ш | DATE OF EXAM | 17/12/2022 |
|--------------------|--|-------------------------------|--------------------|
| SUBJECT NAME | OOPS USING JAVA | SUBJECT CODE | CSH201B-T |
| BRANCH | CSE | SESSION | Morning |
| TIME | 9.00AM - 12.00 noon | MAX. MARKS | 100 |
| PROGRAM | B. Tech. CSE | CREDITS | 5 |
| NAME OF FACULTY | CSE3A: Dr. Shalu CSE3B&C: Mr. Ram Chatterjee | NAME OF COURSE COORDINATOR | Mr. Ram Chatterjee |

Note: All questions are compulsory.

| | Ol. Answ | QUESTIONS ver the following in short. | MAR KS | CO ADDRESS ED | BLOO M'S LEVE L | PI |
|--------|-----------|--|-----------|---------------------|--------------------------|-------|
| | a) | How the Java String differs from the C String? | I | COI | ВТІ | 1.4.1 |
| | b) | Demonstrate the relationship between association, aggregation and composition? | 1 | COI | ВТІ | 1.4.1 |
| | с) | How do we parameterize a constructor? | 1 | COI | BTI | 1.4.1 |
| | d) | What does this keyword symbolize? | 1 | COI | ВТІ | 1.4.1 |
| PART-A | e) | Why multiple Inheritance is restricted in java? | Ĩ | COI | ВТІ | 1.4.1 |
| PA | t) | Why java main method is static? | 1 | COI | BTI | 1.4,1 |
| | g) | When automatic type conversion takes place in java? | I | COI | ВТІ | 1.4.1 |
| | h) | What are the differences between static and non- static nested classes? | 1 | CO1 | ВТІ | 1.4.1 |
| | i) | Differentiate between Identifier and Literal in java. | 1 | COI | BTI | 1.4.1 |
| | j) | How would you access package from another package? | 1 | COI | BT1 | 1.4.1 |

| | Q2 (A) | Demonstrate via figures different type of inheritance supported by Java. | 5 | CO2 | BT2 | 3.2.1 |
|--------|--------|--|----|-----|------|-------|
| PART-B | Q2(B) | Write the correct version of the given code by mentioning the error in the code: interface A { A() { } void m1(); public abstract class B implements A { public void m1() { System.out.println("One"); } } | 5 | CO2 | B1'2 | 2.2.3 |
| | Q3(A) | Explain SOLID design principle. | 10 | CO3 | BT3 | 2.4.1 |
| | Q3(B) | Brief the Java exception handling mechanism. Write a java program that handles the 1/0 (one divided by zero) exception. Write the code given below with correct logic & | 10 | CO3 | ВТЗ | 2.3.2 |
| PART-C | Q3(C) | syntax by filling in the blanks and underline the same in your answer: | 10 | CO3 | ВТ3 | 3.4.2 |
| | Q3(D) | Explain the design pattern would you apply while designing a code on shared database for I/O? | 10 | CO3 | вт3 | 2.4.1 |
| | Q4(A) | Demonstrate thread life cycle with self- explanatory diagram including thread methods. Write a java program to set the priority of thread. | 10 | CO3 | втз | 2.3.1 |
| CT-D | Q4(B) | Write a program in Java that will read the following content from the file "fl.txt" and write the same content in another file named "f2.txt". | 10 | CO3 | ВТЗ | 3.4.2 |
| PART-D | Q5(A) | Differentiate between the following a) FileReader Class and FileWriter Class b) InputStreamReaderClass and OutputStreamWriter Class | 10 | CO3 | BT2 | 3.4.2 |
| | Q5(B) | What are I/O Exceptions? Describe briefly four fundamental I/O-related Exceptions. | 10 | CO3 | BT2 | 3.4.2 |



DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End Term Examination, December-2022"

| SEMESTER | 3 RD /5 TH | DATE OF EXAM | 19/12/2022 |
|--------------------|---|----------------------------------|----------------------------|
| SUBJECT NAME | Analysis & Design of Algorithms | SUBJECT CODE | CSH204B-T |
| BRANCH | Computer Science & Engineering (CSE)/AIML | SESSION | I |
| TIME | 9 AM – 12 Noon | MAX. MARKS | 100 |
| PROGRAM | B.Tech | CREDITS | 5 |
| NAME OF FACULTY | Dr. Susmita Ray,DR.HARSH,MS.PRIYANKA | NAME OF COURSE COORDINATOR | Mr. Anup Singh Kushwaha |

Note: Attempt all questions.

| 11010. | Attempt all questions. | Con | | | |
|--------|---|-------|-------------------------|----------------------|-------|
| Q.NO. | QUESTIONS | MARKS | CO ADDR ESSE D | BLOO M'S LEVEL | PI |
| | PART A | 1 | | | |
| 1(A) | What is the complexity of Radix Sort Algorithm? Which sorting algorithm is used by Radix Sort? | 2 | CO2 | BT1, BT2 | 2.1.3 |
| 1(B) | Bucket Sort uses Insertion Sort. Is the complexity of Bucket Sort Algorithm same as Insertion Sort or not? Justify your answer. | 2 | CO4 | ВТ3 | 2.2.3 |
| 1(C) | What is the time complexity of the following pseudocode of an algorithm? p=0 for(i=1, i <n, (j="1," for="" i="i*2)" j="j*2)" j<p,="" p++;="" s;}<="" td="" {="" {statement="" }=""><td>2</td><td>CO4</td><td>втз</td><td>2.2.3</td></n,> | 2 | CO4 | втз | 2.2.3 |
| 1(D) | Name 2 sorting algorithms which uses Divide & Conquer Approach? | 2 | CO1 | BT2 . | 2.1.3 |

| 1(E) | Which are the Recurrence R | four elatio | differen | nt app | roach | es for | solving | 2 | COO | BT1 | |
|-------|---|---------------------------------------|---|--|----------------------------|--------------------------|---|-----------------------------------|---------------------|---------------------|---------------|
| | A | | | | | | | 2 | CO2 | 4 | 2.1.3 |
| | Fred in Direct | |] | PART | <u>B</u> | | | | | | to the second |
| Q2(A) | Explain Divid Write the algo complexity. | e and orithm | of Mei | er stra ge So | itegy v | with and derive | n example. e its | 8 | CO2 | BT2 | 2.1.3 |
| 2(B) | Use Merge So numbers. Trac 60, 23, 38, 76, | e all s | teps of | execu | the fo | ollowi f sorti | ng set of ng algorithm: | 2 | CO3 | ВТЗ | 2.2.3 |
| | | | <u>P</u> / | ART (| C | | | | 1 | | |
| Q3(A) | Write the Accomplexity. N | ctivity ame t | the algo | orithm | Algor desi | ithm gn str | ategy used to | 5 Marks Breakup:(2+1+2) | CO1, CO2, CO3 | BT2, BT2, BT3 | 2.1.3, |
| | Apply Activit sequences of times as provid | seque | lection ncing a | ectivit | ies w | for ith sta | algorithm. finding two art and finish | | | | 2.2.3 |
| | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 4 1 8 | 5 6 5 8 9 10 | 7 9 11 | 8 11 14 | 9 13 16 | | | | | |
| | Write the Job find its comple used to formula Apply Job se scheduling the j following table. the problem solu | exity. te this equence obs w Show | Name algoriteing with spen vith spen vith step | the a hm. rith I cified by ste | lgoritl Deadli deadl | um de ne al ine as | gorithm for given in the | 5 Marks Breakup:(2+1+2) | CO1, CO2, CO3 | BT2, BT2,BT 3 | 2.1.3, 2.2.3 |
| | INDEX | 1 | 2 | 3 | 4 | 5 | | | | | 1 2 |
| | JOB | j1 | j2 | ј3 | j4 | j5 | | | | · . | |
| | DEADLINE | 2 | 1 | 3 | 2 | 1 | | | | ő , | |
| | PROFIT | 60 | 100 | 20 | 40 | 20 | | | ļ | F* | |

| Q4(A) | Explain briefly Minimum Cost Spanning tree with an example. Write Prim's Algorithm to generate MST for any weighted graph. Analyze the time complexity of the algorithm | 6 | CO1, CO4 | BT2, BT2,BT4 | 2.1.3 |
|-------|---|---|-------------|-----------------|-------|
| 4(B) | Use Prim's Algorithm to generate the Minimum Cost Spanning Tree of the following graph: | 4 | CO3 | BT3 | 2.2.3 |
| | 15 23 5 11 22 4 | | | , 1 3, | |
| | 21 | 5 | | | |
| | Explain briefly the Dynamic Programming strategy of designing algorithm. Write the Algorithm of Matrix Chain Multiplication using Dynamic Programming strategy. | | CO1 | | 2.1.3 |
| Q5(A) | a regression g change, | | | BT2, BT2 | 2.2.0 |
| | • | 5 | CO3 | BT4 | 2.2.3 |
| | Use Dynamic Programming method to multiply the chain of 3 Matrices namely A1, A2, A3. Following are the dimensions of the matrices: | | , . | .*. | |
| | A1: [2 x 3] A2: [3 x 4] A3: [4 x 2] | | | | |
| 5(B) | To obtain $M = A1 \times A2 \times A3$ find out the cost of computation of multiplication of this Matrix Chain and the order in which the matrices need to be multiplied together. Show computation of all cells of the cost computation matrix and all cells of the matrix which stores optimal parenthesization (/sequence) of matrix chain multiplication. | | | | |
| Q6(A) | Explain with example optimal binary search tree | 4 | CO1, CO2 | BT2 | 2.1.3 |
| 6(B) | Find the Optimal Binary Search Tree for the following set of keys and search frequencies using Dynamic Programming method for successful search only | 6 | CO3, CO4 | BT3, BT4 | 2.2.3 |
| | | | | - 1 | 11 |



DEPARTMENT OF MATHEMATICS

"End Term Examination, December-2022"

| SEMESTER | III | DATE OF EXAM | 12/12/2022 |
|--------------------|-------------------------------|-------------------------------|-------------------|
| SUBJECT NAME | Probability and Statistics | SUBJECT CODE | MAH-202 B-T |
| BRANCH | CSTI+CDA | SESSION | I |
| TIME | 9:00AM-12:00Noon | MAX. MARKS | 100 |
| B.Sc B.Ed | B.Tech | CREDITS | 04 |
| NAME OF FACULTY | Ms Seema Aggarwal | NAME OF COURSE COORDINATOR | Ms Seema Aggarwal |

Note: All questions are compulsory.

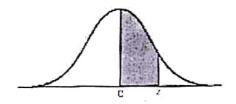
| 10 | in ga | esnons are compu | M A R K S | CO AD DR ESS ED | BL 00 M'S LEV EL | PI | | | |
|--------|-------|---|--|---|-----------------------------------|--------------------------|---------|-----|--------------------------|
| PART- | 1(a) | the workers have a | a 20% chance of at of six workers | ease in an industry is suffering from it. V chosen at random,f | Vhat is the | 5 | CO 1 | BT2 | 1.1.2, 2.1.3 4.4 |
| T-A | 1(b) | Suppose a book of these errors are rather probability that errors? | 5 | CO 2 | BT2 | 1.1.2, 2.1.3 4.4.1 | | | |
| PART-B | 2(a) | score is 42 and the normal distributio (i) the number | e standard deviat ns for the scores of candidates w | 000 candidates. The ion score is 24. Ass find hose score exceeds whose score lies between | uming | 5 | CO 2 | вт3 | 1.1.2, 2.1.3 4.4.1 |
| В | 2(b) | X and Y are two r $f(x,y) = \frac{1}{27}(2x - y)$ values 0.1.2. Find | + y), where x as conditional dist | having joint density nd y can assume on ribution of Y for X | ly integer $= x$. | 5 | CO 2 | BT3 | 1.1.2, 2.1.3 4.4.1 |
| PART-C | | In an examination following informa Marks Obtained Less than 10% Less than 20% Less than 30% Less than 40% | of 675 candidate tion: No.of Candidates 7 39 95 201 rtile Q1 and this | Marks Obtained Less than 50% Less than 70% Less than 80% rd quartile Q3 of the | No. of Candidates 381 545 631 675 | 10 | CO 3 | ВТЗ | 1.1.2, 2.1.3 4.4.1 |

| Main | | | Calculat | | | | | | | | | | | | | | | | | | _ |
|--|--------------------|---------------|--|-----------------|------------|--------|-------|--------|---------|------------------|--------|---|-------|-----------|-------|-------|-----|-----|-----|--------|-----|
| Frequen 35 40 48 100 125 87 43 2 CO 21.3 | | | Mean,mo | | | | | | | | | | | | | | 3 | | | | |
| The following data relate the age of husband and wife Age of 35 34 40 43 56 20 38 A4.1 | 100 | | Variable | 1,44 | | 15-1 | 0 | 10-17 | | | 10- | - 1 | | | | | 1 | | | | 41 |
| The following data relate the age of husband and wife Age of | 100 | | Frequen | 35 | | 40 | - | 48 | | - - | 125 | | | | | - | 2 | 00 | | | - |
| The following data relate the age of husband and wife Age of Age of 35 34 40 43 56 20 38 Age of 32 30 31 32 53 20 33 Age of 32 30 31 32 53 20 33 Age of 32 30 31 32 53 20 33 Age of 32 30 31 32 53 20 33 Age of 32 30 31 32 53 20 33 Age of 32 30 31 32 53 20 33 Age of 32 Age of 32 30 31 32 53 20 33 Age of 32 Age of 32 30 31 32 53 20 33 Age of 32 Age of 33 Age of 34 A | 2 | 3(b) | | | | | | | | | | | 0, | | -73 | | 710 | | 1. | 1200 | |
| Age of 35 34 40 43 56 20 38 | | | | wing | lata | relate | the | age (| of hus | band | and | l wif | fe | | | | +10 | 3 | D1. | 4.4. | L |
| Musband Age of 32 30 31 32 53 20 33 32 33 32 33 34 32 33 34 32 33 33 32 33 | | | Age of | | | | | | | | _ | | | 20 | 7-7 | 138 | | | | | |
| Wife | S. | | husband | | | | | | | | | | | | | " | | | | | |
| Calculate Karl Pearson's coefficient of correlation and interpret it. 10 | | | | 32 | | 30 | 3 | 31 | 32 | | 53 | } | 1 | 20 | | 33 | ĺ | | | | |
| Adv. Expenditure (X) Sales (Y) (in lakhs (in lakhs) Mean | I'A | | | Karl | Pear | son's | coe | fficie | nt of c | orrel | atio | on ar | 24 | inte | rnra | + i+ | - | 00 | | | |
| Adv. Expenditure (X) Sales (Y) (in lakhs (in lakhs) Mean | ~ | 4(a) | | 9. 9 | | | | | | | | | IQ. | inc | pre | ı ıı. | 10 | | BT3 | | |
| Mean | Ċ | | The data | for ad | verti | sing a | | | | | | | | | | | | | | | _ |
| Mean Standard Deviation 3 12 1.1.2, Correlation coefficient $r = 0.8$ (i)Calculate two regression lines. (ii)Find the likely sales when advertisement expenditure is Rs.15 lakhs. (iii) What should be the advertisement expenditure if the company wants to attain a sales target of Rs 120 lakhs? By the method of least square, find the straight line that best fits the data: $x = 71 = 68 = 73 = 69 = 67 = 65 = 66 = 67 = 79 = 90 = 70 = 70 = 70 = 68 = 67 = 68 = 64 = 60 = 67 = 68 = 64 = 60 = 67 = 68 = 64 = 60 = 60 = 60 = 60 = 60 = 60 = 60$ | 8 | | i | | | | | | | re (X |) | Sale | es | (Y) | (in | lakh | | | | | |
| Standard Deviation 3 112 10 CO 4 BT3 1.1.2, Correlation coefficient $r=0.8$ (i) Calculate two regression lines. (ii) Find the likely sales when advertisement expenditure is Rs.15 lakhs. (iii) What should be the advertisement expenditure if the company wants to attain a sales target of Rs 120 lakhs? By the method of least square, find the straight line that best fits the data: | 11 25 | | Mean | | | - | | akns |) | | _ | 00 | | | | | - | | | | |
| A(b) Correlation coefficient r = 0.8 | | 0.00 | | Devi | ation | | | | | - | | | | | | | - | | | 1 | |
| (i)Calculate two regression lines. (ii)Find the likely sales when advertisement expenditure is Rs.15 lakhs. (iii) What should be the advertisement expenditure if the company wants to attain a sales target of Rs 120 lakhs? By the method of least square, find the straight line that best fits the data: X 71 68 73 69 67 65 66 67 Y 69 72 70 70 68 67 68 64 A group of 10 rats fed on a diet A and another group of 8 rats fed on a different diet B recorded the following increase in weight(gm) Diet 2 3 6 8 10 1 2 8 Diet 2 3 6 8 10 1 2 8 Diet 2 3 6 8 10 1 2 8 Diet 2 3 6 8 10 1 2 8 Diet 3 6 8 10 1 2 8 Diet 4 4.11 S(b) Does it show the superiority of diet A over diet B? The following table gives the number of aircraft accidents that occurred during the various days of the week. Find whether the accidents are uniformly distributed over the week. Fest at 5% level of significance. Days Sun Mon Tue Wed Thu Fri Sat To No. of 14 16 8 12 11 9 14 84 84 A 66 67 75 76 82 84 88 90 92 B 64 66 74 78 82 85 87 92 93 95 Test whether the two populations have the same variance at 5% Evel of significance? | 1 | 100 | | | | | | .8 | | | | 12 | | | | · | 1 | CO | | 1.1.2 | , |
| (ii)Find the likely sales when advertisement expenditure is Rs.15 lakhs. (iii) What should be the advertisement expenditure if the company wants to attain a sales target of Rs 120 lakhs? By the method of least square, find the straight line that best fits the data: x 71 68 73 69 67 65 66 67 y 69 72 70 70 68 67 68 64 A group of 10 rats fed on a diet A and another group of 8 rats fed on a different diet B recorded the following increase in weight(gm) Diet 5 6 8 1 12 4 3 9 6 A Diet 2 3 6 8 10 1 2 8 B Does it show the superiority of diet A over diet B? The following table gives the number of aircraft accidents that occurred during the various days of the week. Find whether the accidents are uniformly distributed over the week. Test at 5% level of significance. Days Sun Mon Tue Wed Thu Fri Sat To No. of 14 16 8 12 11 9 14 84 CO 2.1.3 G(a) accidents Two random samples were drawn from normal population and their values are A 66 67 75 76 82 84 88 90 92 B 64 66 74 78 82 85 87 92 93 95 Test whether the two populations have the same variance at 5% 10 5 BT4 4.4.1 | | 4(0) | (i)Calcula | ite two | reg | ressio | n li | nes. | | | | | | | | | 10 | | BT3 | | 2. |
| Substitute Sub | | Nie. | (ii)Find th | ie like | ly sa | les w | hen | adve | rtisem | ent ex | xpe | ndit | ure | is | Rs.1 | 5 | | | | 4.4.1 | 7 |
| By the method of least square, find the straight line that best fits the data: x 71 68 73 69 67 65 66 67 y 69 72 70 70 68 67 68 64 Estimate y when x = 60. | ě | | lakhs. | | | | | | | | | | | | | | | 1 | | | |
| By the method of least square, find the straight line that best fits the data: | | | (III) What | shoul | d be | the a | dvei | tisem | ient ex | pend | itu | re if | the | e co | mpa | any | | | | | |
| the data: x 71 68 73 69 67 65 66 67 y 69 72 70 70 68 67 68 64 Estimate y when x = 60. | | | wants to a | main a | sale | s tar | get c | of Rs | 120 la | khs? | | | | | | | | | 12 | | |
| the data: x 71 68 73 69 67 65 66 67 y 69 72 70 70 68 67 68 64 Estimate y when x = 60. | ã | 1220 | By the me | thod o | f lea | ist so | uare | find | the str | aight | lin | e the | at I | hest | fite | | | - | _ | - | _ |
| Solution Tight. | | the data: | | | | | , | tire ou | ui5iii | 1111 | ic in | at 1 | JUST | 1115 | | | | | | . 1 |
| Section Sect | | 全部 加 | x 7 | 1 | 68 | 73 | 3 | 69 | 67 | 7 T | 65 | | 66 | 5 | 67 | 7 | | | | 112 | |
| (a) Estimate y when x = 60. A group of 10 rats fed on a diet A and another group of 8 rats fed on a different diet B recorded the following increase in weight(gm) Diet 5 6 8 1 12 4 3 9 6 A Diet 2 3 6 8 10 1 2 8 B Does it show the superiority of diet A over diet B? The following table gives the number of aircraft accidents that occurred during the various days of the week. Find whether the accidents are uniformly distributed over the week. Test at 5% level of significance. Days Sun Mon Tue Wed Thu Fri Sat To 1.1.2, 2.1.3 No. of 14 16 8 12 11 9 14 84 0 CO 2.1.3 Two random samples were drawn from normal population and their values are A 66 67 75 76 82 84 88 90 92 B 64 66 74 78 82 85 87 92 93 95 Test whether the two populations have the same variance at 5% 10 5 BT4 4.4.1 | | 5 | | | | | - | 70 | 68 | 3 | 67 | | 68 | 3 | 64 | 1 | | СО | | . 5 | Ę |
| on a different diet B recorded the following increase in weight(gm) Diet 5 6 8 1 12 4 3 9 6 Diet 2 3 6 8 10 1 2 8 B | | (a) | | | | | | | | | | | | | | | 10 | | BT4 | 1 | 1 |
| Weight(gm) | | 遺體 | A group of | f 10 ra | ts fe | d on | a di | et A a | nd an | other | gro | oup (| of a | 8 ra | ts fe | d | | | | | ٦ |
| Diet 5 6 8 1 12 4 3 9 6 | | | on a differ | ent die | et B | recor | ded | the fo | llowi | ng inc | crea | ase i | n | | | | | | | | |
| A | | | | | 6 | 8 | 11 | | 12 | 1 | _ | 2 | 1.0 | | | | | | | | |
| B | | 2 (b) | | | 0 | " | 1 | | 12 | 4 | | 3 | 5 | , | 0 | 11 | | | | | |
| B | | | Diet 2 | | 3 | 6 | 8 | | 10 | 1 | | 2 | 8 | 3 | | | | | | 112 | |
| Solution - | | | | | | | | | | | | | 3 | | | - 1 | CO | | | |
| CCC CO CCC | 2 | 5(b) | Does it sho | w the | sup | eriori | ty o | f diet | A ove | r diet | B | ? | | | | | 10 | | BT3 | | |
| CO CO CO CO CO CO CO CO | = | | The follow | ing ta | ble g | gives | the 1 | numb | er of a | ircrat | ft a | ccid | ent | ts th | at | | | | | | 1 |
| Days Sun Mon Tue Wed Thu Fri Sat To No.of 14 16 8 12 11 9 14 84 10 5 BT3 4.4.1 Two random samples were drawn from normal population and their values are A 66 67 75 76 82 84 88 90 92 | | | occurred d | uring t | he v | ariou | s da | ys of | the w | eek. F | in | d wh | etl | her | the | | | | | | |
| Days Sun Mon Tue Wed Thu Fri Sat To No.of 14 16 8 12 11 9 14 84 10 5 BT3 4.4.1 | | 120 | level of sig | re uni | orm | ny an | strib | utea | over ti | ie we | ek. | Tes | t a | t 5% | 6 | | ĺ | | | | |
| No.of 14 16 8 12 11 9 14 84 10 5 BT3 4.4.1 | | TESTON ! | | | _ | Mon | T | 16 | Wed | Thu | | Eri | | 80 | | T | | | | | ı |
| CO CO BT3 4.4.1 | | | | | | | | _ | | _ | + | | | | _ | | | 00 | | | |
| Two random samples were drawn from normal population and their values are A 66 67 75 76 82 84 88 90 92 B 64 66 74 78 82 85 87 92 93 95 Test whether the two populations have the same variance at 5% CO 2.1.3 level of significance? 10 5 BT4 4.4.1 | | 6(a) | accidents | | | | | | | 1. | İ | , | | 17 | | | 10 | | RT2 | | |
| their values are A 66 67 75 76 82 84 88 90 92 B 64 66 74 78 82 85 87 92 93 95 Test whether the two populations have the same variance at 5% level of significance? CO 2.1.3 BT4 4.4.1 | | 20 May 24 G | Two rando | m san | ples | wer | e dra | wn f | rom n | ormal | pc | pula | atio | on a | nd | _ | 10 | J | D13 | 4.4.1 | ÷ |
| B 64 66 74 78 82 85 87 92 93 95 Test whether the two populations have the same variance at 5% level of significance? 1.1.2, 2.1.3 BT4 4.4.1 | | Total Control | their values | are | | | | | | | * | | | | | | | | | | |
| Test whether the two populations have the same variance at 5% level of significance? CO 2.1.3 BT4 4.4.1 | THE PARTY NAMED IN | | | | | _ | | | | _ | _ | | 9 | 92 | | | | | | | |
| 1 est whether the two populations have the same variance at 5% level of significance? | | | | | | | | | | | | | 9 | 93 | 95 | 5 | | | | 1.1.2, | |
| 10 J B14 4.4.1 | 0.0 | 6(15) | rest whether | er the t | WO J | popul | atio | ns ha | ve the | same | va | ırian | ce | at 5 | % | | | | | 2.1.3 | |
| TT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | 200 | o(n) | THE RESIDENCE OF THE PARTY OF T | SS COMMON STATE | 0350184 Ex | | 700 | | | And to to | tia ti | NATE OF THE PARTY | najet | (popular | | | - | | | 4.4.1 | |
| | 1 | Livery Co. | | *** | *** | **** | ** | *** | ** | EN | D | | ** | ** | ** | *** | *** | *** | *** | | |



APPENDIX

VII. AREA UNDER STANDARD NORMAL CURVE



| _144 | - Te. | j | ,32 | 93 | .54 | .05 | .06 | .67 | 80. | ea, | |
|--------|---|--------|--------|--------|-------|--------|-------|-------|---------|-------|---|
| 1 | | | | | | | | | | | |
| 1 0 | C (300) | 0040 | .0030 | 0126 | .0160 | .0190 | 0209 | ,0279 | .0319 | .0359 | |
| 1 | The contract | _04343 | .0473 | .0517 | .0557 | Arrent | 0636 | .0075 | .0714 | ,0753 | i |
| 0.3 | 1 1111111111111111111111111111111111111 | .0832 | .0871 | ,001G | .0948 | .0987 | 1026 | .1064 | .1103 | 1141 | |
| 10.5 | | .1217 | .1355 | .1293 | .1331 | .1308 | .1400 | 1446 | 14990 | .1517 | |
| ā.d | 1,354 | 1519 | .1638 | .1664 | .1700 | :736 | .1772 | .1808 | 4844 | .1879 | l |
| 0.6 | 1.5037 | 3445 | .1585 | 2009 | .2054 | 2088 | .2123 | .2157 | .9 :90 | .2224 | |
| 2.8 | ,4257 | 2291 | 2324 | VdGX, | .2589 | 2422 | .2454 | .2480 | .2517 | .2549 | |
| 1 07 | 2550 | ,2611 | 2642 | .26771 | .2704 | 2734 | .2764 | ,2794 | 2823 | .2852 | |
| 0.8 | .9851 | .2010 | 29391 | .2967 | .4995 | .3023 | .3054 | .3078 | 901E, | 3133 | |
| D.H | 3133 | .3125 | 3212 | .3238 | .3264 | .3259 | 3315 | 3340 | ,3CH35 | .0386 | |
| 1.5 | 34.13 | 3438 | 3-251 | .3485 | ame. | ,3531 | 3554 | 3577 | 3599 | .3621 | |
| 1,1 | .3643 | 3805 | 3086 | .3708 | .37%) | .3749 | .3770 | .3790 | .38.111 | 3430 | |
| 1.2 | .3549 | 35/41 | HARA | Allery | 3923 | .0944 | .3963 | .3980 | .3990 | .4015 | |
| la del | 16222 | 10000 | , 1088 | 11088 | .1099 | :1115 | .1131 | 4147 | .4162 | .4177 | i |
| 1.4 | .4 92 | 4997 | 4222 | 4236 | .4231 | .4265 | .4270 | 1292 | .4306 | .4319 | |
| 1.5 | 3333 | 4515 | .4355 | .0370 | .1389 | .4394 | .4405 | .4418 | .4429 | 4241 | |
| 1.71 | 4452 | 6460 | 4474 | 4484 | 4495 | .4505 | 4-115 | ,4525 | .4535 | .4545 | |
| 1.7 | .4554 | 1564 | .4573 | 4582 | .4591 | .4599 | .4608 | .4616 | .4625 | .4633 | |
| 18 | A011 | .4543 | .4650 | 4804 | .4671 | 4678 | .4086 | .4693 | .4699 | .4700 | |
| 1.5 | 47!3 | -1715: | ,4726 | 4732 | 4738 | 4744 | .4750 | 4756 | .4761 | .4767 | |
| 3.0 | .4779 | 1274 | .4753 | .4788 | .4795 | .4798 | .4808 | .4308 | 4812 | .1817 | |
| 21 | 4821 | A1526 | 9530 | .4834 | .4838 | ,4842 | .4945 | .4850 | .4894 | .4857 | |
| 23 | 4861 | -486d | 4565 | .4871 | .4875 | .4878 | .4881 | .4894 | .4587 | .4890 | |
| 23.3 | 4593 | 4506 | a1899 | 45051 | .4934 | 4906 | .4989 | .4911 | .4913 | .4910 | 1 |
| | .401× | AND | .4022 | ,4925 | .4927 | .4926 | .4901 | 4932 | ,4934 | .4936 | |
| 25 | -334 | 6940 | .494) | .4943 | .4915 | .4946 | 1948 | .4949 | .4951 | .4952 | İ |
| 2.5 | • | 4955 | 4956 | 4957 | .4959 | .4900 | 4961 | .4962 | .4963 | .4984 | ì |
| | | .1950 | 1997 | 4965 | +959 | 497U | .4973 | .4972 | .4873 | .4974 | |
| | | 4075 | .4976 | | 4977 | .0978 | 4979 | .1979 | .4080 | .4081 | |
| | | | | 4977 | | | 4985 | 4985 | 4586 | 4986 | Ì |
| No. | 1 | | .4982 | 1983 | 4984 | .4954 | | | | 1 | 1 |
| 3.c . | 4867 | 4987 | .4987 | 1983 | 4988 | .4989 | .1959 | .4989 | .4990 | 4990 | Ţ |

Table 2 : SIGNIFICANT VALUES $t_v(\alpha)$ OF t-DISTRIBUTION (TWO TAIL AREAS) [| t | > $t_v(\alpha)$] = α

| d.f. | | | Probabilit | y (Level of Sig | nificance) | |
|------|--------|------|------------|-----------------|------------|--------------|
| (v) | 0.50 | 0.10 | 0.05 | 0.02 | 0.01 | 0.001 |
| 1 | 1.00 | 6.31 | 12.71 | 31.82 | 63.66 | 100 |
| 2 | 0.82 | 0.92 | 4.30 | 6.97 | 6.93 | 636.62 |
| 3 | 0.77 | 2.32 | 3.18 | 4.54 | 5.84 | 31.60 |
| 4 | 0.74 | 2.13 | 2.78 | 3.75 | 4.60 | 12.94 |
| . 5 | 0.73 | 2.02 | 2.57 | 3.37 | 4.03 | 8.61 6.86 |
| 6 | 0.72 | 1.94 | 2.45 | 3.14 | 3.71 | |
| 7 | 0.71 | 1.90 | 2.37 | 3.00 | 3.50 | 5.96 |
| 8 | 0.71 | 1.80 | 2.31 | 2.90 | 3.36 | 541 14 |
| 9 | 0.70 | 1.83 | 2:26 | 2.82 | 3.25 | 5.04 |
| 10 | 0.70 | 1.81 | 2.23 | 2.76 | 3.17 | 4.78 4.59 |
| 11 | 0.70 | 1.80 | 2.20 | 2.72 | 3.11 | 4.44 |
| 12 | 0.70 | 1.78 | 2.18 | 2.68 | 3.06 | 4.32 |
| 13 | 0.69 | 1.77 | 2.16 | 2.05 | 3.01 | 4.22 |
| 14 | 0.69 | 1.76 | 2.15 | 2.62 | 2.98 | 4.14 |
| 15 | 0.69 | 1.75 | 2.13 | 2.60 | 2.95 | 4.07 |
| 16 | 0.69 | 1.75 | 2.12 | 2.58 | 2.92 | 4.02 |
| 17 | 0.69 | 1.74 | 2.11 | 2.57 | 2.90 | 3.97 |
| 18 | 0.69 | 1.73 | 2.10 | 2.55 | 2.88 | 3.92 |
| 19 | 0.69 | 1.73 | 2.09 | 2.54 | 2.86 | 3.88 |
| 20 | 0.69 | 1.73 | 2.09 | 2.53 | 2.85 | 3.85 |
| 21 | 0.69 | 1.72 | 2.08 | 2.52 | 2.83 | 3.83 |
| 22 | - 0.69 | 1.72 | 2.07 | 2.51 | 2.42 | 3.79 |
| 23 | 0.69 | 1.71 | 2.07 | 2.50 | 2.81 | 3.77 |
| 24 | 0.69 | 1.71 | 2.06 | 2.49 | 2.80 | 3.75 |
| 25 | 0.68 | 1.71 | 2.06 | 2.49 | 2.79 | 3.73 |
| 26 | 0.68 | 1.71 | 2.06 | 2.48 | 2.78 | 3.71 |
| 27 | 0.68 | 1.70 | 2.05 | 2.47 | 2.77 | 3.69 |
| 28 | 0.68 | 1.70 | 2.05 | 2.47 | 2.76 | 3.67 |
| 29 | 0.68 | 1.70 | 2.05 | 2.46 | 2.76 | 3.66 |
| 30 | 0.68 | 1.70 | 2.04 | 2.46 | 2.75 | 3.65 |
| S | 0.67 | 1.65 | 1.96 | 2.33 | 2.58 | 3.29 |

Table 3: CHI-SQUARE (χ^2) Significant Values χ^2 (α) of χ^2 Distribution Right Tail Areas for Given Probability α , $P = P_r (\chi^2 > \chi^2 (\alpha)) = \alpha$ And is Degrees of Freedom (d.f.)

| Degree of freedom (v) | | | | of Freedor | | | |
|--------------------------|---------|--------|--------|-----------------|--------|--------|---------|
| | 0 = .99 | 0.95 | 0.50 | 0.10 | 0.05 | | -14 |
| 1 | .000157 | .00393 | 455 | 9.700 | Sig. | 0.02 | 0.01 |
| 2 | .0201 | .103 | 1.386 | 2.706 | 3.841 | 5.214 | 6.635 |
| 3 | .115 | .352 | 2.366 | 4.605 | 5.991 | 7.824 | 9.210 |
| 4 | 297 | .711 | 3.357 | 6.251 | 7.815 | 9.837 | 11.341 |
| 5 | 554 | 1.145 | 4.351 | 7.779 | 9.488 | 11.668 | 13.277 |
| 6 | .872 | 2.635 | 5.348 | 9.236 10.645 | 11.070 | 13.388 | 15.086 |
| . 7 | 1.239 | 2.167 | 6.346 | 4 34 3 | 12.592 | 15.033 | 16.812 |
| 8 | 1.646 | 2.733 | 7,344 | 12.017 | 14.067 | 16.622 | 18.475 |
| 9 | 2.088 | 3.325 | 8.343 | 13.362 | 15.507 | 18.168 | 20,690 |
| 10 | 2.558 | 3.940 | 9.340 | 14.684 | 16.919 | 19.679 | 21.669 |
| | | 0.540 | 3.540 | 15.987 | 18.307 | 21.161 | 23.209 |
| 11 | 3.053 | 4.575 | 10.341 | 17.275 | 19.675 | 22.618 | 24.725 |
| 12 | 3.571 | 5.226 | 11.340 | 18.549 | 21.026 | 24.054 | 26.217 |
| 13 | 4.107 | 5.892 | 12.340 | 19.812 | 22.362 | 25.472 | 27.688 |
| 14 | 4.660 | 6.571 | 13.339 | 21.064 | 23.685 | 26.873 | 29.141 |
| 15 | 4.229 | 7.261 | 14.339 | 22.307 | 24.996 | 28.259 | 30.578 |
| 16 | 5.812 | 7.962 | 15.338 | 23.542 | 26.296 | 29.633 | 32,000 |
| 17 | 6.408 | 8.672 | 15.338 | 24.769 | 27.587 | 30.995 | 33.409 |
| 18 | 7.015 | 9.390 | 17.338 | 25.989 | 28.869 | 32.346 | 34.805 |
| 19 | 7.633 | 10.117 | 18.338 | 27.204 | 30.144 | 33.687 | 36.191 |
| 20 | 8.260 | 10.851 | 19.337 | 28.412 | 31.410 | 35.020 | 37.566 |
| 21 | 8.897 | 11.591 | 20.337 | 29.615 | 32.671 | 36,343 | 38.932 |
| 22 | 9.542 | 12.338 | 21.337 | 30.813 | 33.924 | 37.659 | 40,289 |
| 23 | 10.196 | 13.091 | 22.337 | 32.007 | 35.172 | 38.968 | 41.638 |
| 24 | 10.856 | 13.848 | 23.337 | 32.196 | 36.415 | 40.270 | 42, 480 |
| 25 | 11.524 | 14.611 | 24.337 | 34.382 | 37.65 | 41.566 | 44.314 |
| 26 | 12.198 | 15.379 | 25.336 | 35.363 | 38.885 | 41.856 | 45.642 |
| 27 | 12.879 | 16.151 | 26,336 | 36.741 | 40.113 | 41.140 | 46.963 |
| 28 | 13.565 | 16.928 | 27.336 | 37.916 | 41,337 | 45.419 | 48.278 |
| 29 | 14.256 | 17.708 | 28.336 | 39.087 | 42.557 | 46.693 | 49.588 |
| 30 | 14.933 | 18.493 | 29.336 | 40.256 | 43.773 | 47.962 | 50.892 |

Note. For degrees of freedom (v) greater than 30, the quantity $\sqrt{2\chi^2} - \sqrt{2v-1}$ may be used as a normal variate with unit variance.

X. 5% POINTS OF FISHER'S F-DISTRIBUTION

| 4 | - | + | 4 | 3 | - | 4 | 5 | 6 | 7 | 8 9 | - 10 | i ≟ dΩ | 13 | 20 | 30 | .60 | N. | 1. |
|--------|-------------|---------------|--------|--------------|--------|----------------|---------|--------|----------|----------|--------|-----------|--------|-----------------|--------|-------------------|--|------------|
| 1 | 161.4 | 5 3.5 | | 15.71 | 224.5 | | 2114 | 9 236. | 7 238.8 | 8 240.54 | 241.88 | 243.91 | 245 95 | 213.01 | 250.09 | 252.20 | delas | Tall |
| 1 | 18.51 | | | 9.164 | 19.24 | | | 0 193 | 3 1937 | 19.385 | 19.396 | | 19.420 | 100 | 19.462 | 19,479 | 254.32 | 1 |
| 1 | 7.708 | | | 2766 | 9.117 | | 1 | 8 886 | 8 8.845 | 8.8123 | 8.7855 | 8.744 | | | 8.6166 | 8,5720 | | 1 |
| 5 | 6.607 | | - I - | 5914 | 6.3883 | | | 6.094 | 2 6.0410 | 5.9988 | 5.9644 | 4,750 | 5.8578 | | 5.7459 | 5 6879 | 8.5265 5.0281 | |
| | 5.9874 | | | 4095 | 5.1922 | | | 4 875 | 3 4.8183 | 4.7725 | 4.7351 | 4.6777 | 4.6188 | | 4.4957 | | 43650 | |
| | | 1 | | 7571 | 4.5337 | | | 4.206 | 6 4.1468 | 4.0990 | 4.0600 | 3,9999 | 3.9181 | | 3.8082 | 17308 | HAT WHAT | |
| 1 | 5.5914 | 1 | | 3468 | 4.1203 | | 3.8660 | 3.787 | 0 3.7257 | 3.6767 | 3.6365 | 3.5747 | 35:08 | 1 | 3.3758 | 3,3013 | 1116 2 2299 | |
| 611 | 53177 | 4.45 | | 0662 | 3.8378 | 3,6875 | 3.5806 | 3.500 | 5 3.4381 | 3.3881 | 3.3472 | 3.2840 | 3.2184 | 1 | 3.0794 | 3.0053 | 3.2298 | 2 |
| 11.1 | 5.1174 | 4.256 | | - 1 | 3.6331 | 3.4817 | 3.3738 | 3.292 | 3.2296 | 3.1789 | 3.1373 | 3.0729 | 3,0001 | 2 9365 | 28637 | 21 1 | 2.9276 | |
| 3. 1. | .9646 | 4.102 | | | 3.4780 | 3.3258 | 3.2172 | 3.1355 | 3.0717 | 3.0204 | 2.9782 | 2.9130 | 2.8450 | 345 | 2.6996 | 2.6211. | 2.7007 | 1 |
| | .\$443 | 3.982 | | 874 | 3,3567 | 3.2039 | 3.0946 | 3.0123 | 2.9480 | 2.8962 | 2.8536 | 2.7876 | 2,7186 | 2 6464 | 2.5705 | 2.4901 | 25379 | |
| . 1 | .7272 | 3.885 | 3 3.4 | 903 . | 3,2502 | 3.1059 | 2.9961 | 2.9134 | 2.8486 | 2.7964 | 2.7534 | 2.6860 | 2.6169 | 2 5436 | 2.4663 | 7 | | |
| | .6672 | 3.805 | 5 3.4 | 105 . | 3.1791 | 3.0254 | 2.9153 | 2.8321 | 2.7669 | 27144 | 2.6710 | 2.6037 | 25331 | 2 4589 | 2.3803 | 13812 | 1. 1. | |
| 0 1 | 6001 | 3.738 | 3.3 | 139 | 3.1122 | 2.9582 | 2.8477 | 2.7642 | 2.6987 | 2.6458 | 2.6021 | 2.5342 | 2.4530 | 23879 | 2.3082 | 1.2966 | 2.2064 | |
| 5 4. | 331 | 3 6823 | 3.2 | 874 3 | 3.0556 | 2.9013 | 2.7905 | 2.7066 | 2.6408 | 2.5876 | 2.5437 | 2.4753 | 2,4035 | 2 3275 | 2.2468 | 2223) | 2.1307 | 15, |
| 6 4. | 4940 | 3.633 | 3.2 | 389 3 | 3.0069 | 2.8524 | 2.7413 | 2.6572 | 2.5911 | 2.5377 | 2.4935 | 2.4247 | 23522 | 2756 | 2.1938 | | 20658 | |
| 7 4. | 1513 | 3.5915 | 3 19 | 68 2 | 9647 | 2.8100 | 2.6987 | 2.6143 | 2.5480 | 2.4943 | 2,4499 | 2.3807 | 23077 | 2 2304 | | 1105 | 2.0096 | 1 |
| 8 44 | 139 | 3.5546 | 3.15 | 99 2 | 9277 | 2.7729 | 2 6613 | 2.5767 | 2.5102 | 2.4563 | 2.4117 | 2.3421 | 22686 | 460 | 2.1477 | 1 1 | 1.9604 | |
| 13 | 808 | 33219 | 3.12 | 74 2 | 8951 | 2.7401 | 2 6283 | 2.5435 | 2.4768 | 2.4227 | 2.3779 | 2.3080 | 22341 | 2.1906 | 2.1071 | 20166 | A 1500 | |
| 43 | 513 | 3,4928 | 3.09 | 84 2 | 8661 | 2.7100 | 2.5990 | 2.5140 | 2.4471 | 2.3928 | 2.3479 | 2.2776 | - 1 | 2 555 | 2.0712 | 1996 | 1.8780 | |
| 4.3 | 248 | 3.4668 | 3.07 | | .8401 | 2.6848 | 2.5727 | 2.4876 | 2.4205 | 2.3661 | 2.3210 | 2.2504 | 2:2033 | 2 1242 | 2.0391 | 1.9164 | 1313 | 71 |
| 1430 | 109 | 3 4434 | 3.049 | | - 1 | 2 6613 | 2.5491 | 2.4638 | 2.3965 | 2.3419 | 2.2967 | | 2.1757 | 2.0960 | 2.0102 | 1.9163 | 18117 | |
| 4.27 | 93 | 3.4221 | 3.028 | - 1 | 1000 | 2.6500 | 2.5277 | 2.4422 | 2.3748 | 2.3201 | 2.2747 | 2.2258 | 2,1508 | 2 0707 | 1.9842 | 1.8395 | [.783] | |
| 4 25 | 77 1 | 4028 | 3 008 | 100 | | | 2.5082 | 2.4226 | 2.3551 | 2.3002 | 2.2547 | 2 2036 | 2.1282 | 2.0476 | 1.9605 | 1.8549 | 1.7570 | |
| 424 | | 3.3852 | | | | 110 | 2.4904 | 2.4047 | 2.3371 | 2.2821 | | 2.1834 | 2.1077 | 2 0267 | 1.9390 | 18124 | Control of the Contro | 100 |
| 6.27 | 30 0 | | 2.975 | s: 1 s s s | 1 | | 2.4741 | 2.3883 | | | 2,2365 | 2 1649 | 600 | 2 0075 | | 1446 | 12032327401 | 10.46 |
| 4.225 | 15-4-11 | 3690 | 1+11 | | | | | | 2.3205 | 2.2655 | 2.2197 | 7 | 20716 | 1.9898 | 1.9010 | 13027 | 1.6906 | |
| 4,210 | OF BUILDING | 1000 | 2.960 | | | 3 - 15 1 - | Acres 6 | 2,3732 | 2.3053 | 2.2501 | 2.2043 | | 20558 | 1.9736 | 1.8342 | 西江 | 1,6717 | |
| 4.196 | Still the | - Pag. | 2.946 | 200 | | | | 2.3593 | | 2.2360 | 2.1900 | 2.1179 | 50411 | 1.9586 | 1.8687 | 1.1039 | 1,6541 | |
| 4.183 | . 1 | | 2.9340 | 1 | ı | | | 2.3463 | 2.2782 | 2.2229 | 2.1768 | 2.1045 | 2.0275 | 19446 | 1.8543 | 1537 | 1.6377 | 3 |
| 4.1709 | 1, 1, | 16.20 at 15.4 | 2.9223 | \$ 1-30 Feb. | | 100 | - | 2.3343 | | 2.2107 | 2 1646 | 2.0921 | 20148 | 1.9317 | 1.8107 | 1.73% | 6223 | HE ST |
| 4.0848 | 3. | | | | 060 2 | 40 States Lo | .3359 | 2.2490 | 4 | 2.1240 | 2.0772 | 2 C 1 C 1 | 1.9245 | 1.8389 | | 6373 | COLUMN TO SERVICE STATE OF THE PARTY OF THE | |
| 0012 | 3.1 | 504 | 7581 | 2.52 | 252 2 | 3688 2 | 2540 | 2.1665 | 2.0970 | 2.0401 | | 1.9174 | 1.5 | Tell of the his | 16491 | 14 THE RESERVE | STATE OF THE PARTY OF | 对外的 |
| | 10 | ACCULTANT OF | | | | 2900 2 | 1750 | 2.0867 | 2.0164 | 1.9588 | | | | CO. HENDINGS | 13543 | 11.00.000.000.000 | 0.000 | 湿 |

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"End term Examination, 2022" Paper 1D:

Semester: III & VII Subject: French Branch: All Course Type: Core

Time: 1.5 hours Program: 5 Teh/6 se/ LIB/66A

Student Name:

Date of Exam: 13/12/2-22

Subject Code: FLS 103 Session: Odd (11) Course Nature: Hard

Signatures HOD/Associate HOD: Disputed

Note: All questions are compulsory.

Section-A COMPRÉHENSION ÉCRITE

1. Lisez le passage et répondez aux questions suivantes. (Read the passage and answer to the questions)

Bonjour! Je m'appelle Sonia. J'ai vingt ans. J'habite à Lille. Je suis française. Je parle français, anglais et espagnol. Je suis étudiante. J'aime danser et chanter Je déteste le poulet. Il y a quatre membres dans ma famille. Mon père est homme d'affaires. Il est fort et gentil. Ma mère est institutrice. Elle est belle et sympathique, J'ai un frère qui s'appelle Rohan. Il a dix-huit ans. Il est étudiant. J'aime ma famille.

| | - - | |
|----|--|-----|
| A. | Dites vrai ou faux: | (3) |
| | (True or False) | |
| 3) | Sonia a une sœur. | |
| b) | Le père de Sonia est journaliste. | |
| c) | Sonia parle allemande. | |
| B. | Répondez aux questions. | (2) |
| | (Answer the questions) | |
| a) | Il y a combien de (how many) membres dans la famille de Sonia? | |
| | · | |
| b) | Quelle est la profession de mère de Sonia? | |
| | | |
| | _ | |

| OU | vous (Present yourself) | (5) |
|-------------|-----------------------------------|---|
| OU | | • |
| Décrivez vo | | |
| | tre ami(e) (Describe your friend) | |
| | | |
| _ | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Section (1 | |
| | • | |
| | | |
| | | (5) |
| | | |
| Nous | (être) italiens. | |
| Je | (aller) au parc. | |
| L'oiseau | (chanter) les chansons. | |
| Elles | (visiter) les monuments. | |
| Tu | (travailler) au bureau. | |
| | | |
| | | (2 |
| | | |
| e sont | bonbons de Caroline. | |
| avior | n est beau. | |
| | (Conjugate to Nous | |

c)

| d) | C'est chaise de cette classe. | |
|----|---|-------|
| 5. | Complétez avec les articles indéfinis. (Complete with indefinite articles-un,une, des) | (2) |
| a) | Nous mangeons gâteaux. | |
| b) | C'est fleur. | |
| c) | C'est femme. | |
| d) | C'est chapeau. | |
| 6. | Complétez avec les nombres ordinaux. (Complete with ordinal numbers) | (3) |
| a) | Mai est le mois de l'année. | |
| b) | Samedi est le jour de la semaine. | |
| c) | Septembre est le mois de l'année. | |
| | Quelle heure est-il ? (What time is it?) 06:30 | . (4) |
| | 04:10 | |
| c) | 06 :30 | |
| d) | 12:10pm | |
| 8. | Répondez aux questions. | (3) |
| | (Answer to the questions) | |
| a) | Quel est le mois entre juin et août? | |
| b) | Comment allez- vous? | |
| c) | Quel est le sixième jour de la semaine? | |
| 9. | Reliez les colonnes. (Match the columns) | (3) |
| | | |

| Colonne A | Colonne B | Answers |
|----------------------|-------------------|---------|
| a. Il neige | i. It is pleasant | |
| b. Il fait beau | ii. It is sunny | |
| c. Il fait du soleil | iii. Snowing | |

| L | | |
|------|--|-----|
| 10. | Traduisez les mots en anglais. (Translate the words in English) | (3 |
| a) | Merci beaucoup | |
| b) | Bonne Chance | |
| c) | Au revoir | |
| | | |
| | SECTION-D CULTURE ET CIVILISATION | |
| 11. | Complétez les phrases. | (5) |
| | (Complete the sentences). | |
| a) _ | est un vin français. | |
| b) _ | est un fromage français. | |
| c) _ | est la monnaie unique européenne. | |
| d) _ | etsont les couleurs de drapeau français. | |
| | est la capitale de la France. | |





DEPARTMENT OF FOREIGN LANGUAGE End term Examination, 2022

Semester: 3" & 7" Subject: Spanish Branch: All

Course Type: Core Time: 90 Minutes

Program: B.Tech/Education/Law/BBA/B.Sc

Subject Code: FLS 101 Session: Odd ([i) Course Nature: Soft

Signature: HOD/Associate HOD: Suyanta

| Roll No |
|---------|
| |
| |

Note: All questions are compulsory.

Ques. 1 Lee el texto y responde verdadero o falso. Read the text and respond true or false.

(5)

iHola! iBuenas tardes!

Me llamo Maria, soy mexicana pero vivo en Madrid con mi familia, la capital de España. Yo tengo veintinueve años y soy directora. Tengo un primo en Madrid que se llama Juan. El es de España, es español, Juan tiene 30 años y es camarero. Él vive en una casa muy grande.

- a. María es de Francia. V/F
- b. Maria vive con familia. V/F
- c. Juan es camarero. V/F
- d. Juan es de España. V/F
- e. La casa de Juan es muy grande, V/F

Ques. 2 Elige las palabras de tabla en esta imagen y hace cinco frase con números. (2.5) Choose the words from the table in the picture and make 5 sentences using numbers.



| Hay seis sillas en esta clase. | |
|--|---|
| •j | |
| · | —,* ₁ |
| | |
| • | <u></u> : |
| | ,- |
| s. 3 Hace cinco frases con el verbo ser usando profesión. Make five sentences with the verb ser using profession. | (5) |
| • | — ÷, |
| • | |
| | <u> </u> |
| • | • |
| | ·· |
| e.g. Nuestros escuelas son grandes. Nuestras escuelas son grandes. Mis bolsos son caros. | |
| Sus coche es interesante. | |
| Vuestros hermanas y vuestros primas son bonitos. | |
| Nuestra padre es doctor. | |
| Tu camisetas son modernas. | |
| 5 Completa con días, meses y estaciones. Complete with days, months and seasons. | (4) |
| Martes Jueves. | |
| Noviembre. | |
| | |
| | 3 Hace cinco frases con el verbo ser usando profesión. Make five sentences with the verb ser using profession. 4 Busca los errores de adjetivo posesivo. Look for the error of adjective possessive. e.g. Nuestros escuelas son grandes. Nuestras escuelas son grandes. Mis bolsos son caros. Sus coche es interesante. Vuestros hermanas y vuestros primas son bonitos. Nuestra padre es doctor. Tu camisetas son modernas. 5 Completa con días, meses y estaciones. Complete with days, months and seasons. Martes |

| e. Spring- | |
|--|-------|
| f. Winter | |
| g. Abril Mayo | |
| Ques.6 Completa la serie de números. Complete the series with numbers. | (8) |
| a. Quince dieciocho. | |
| b. Dos | |
| c Treinta y uno, | |
| d. Cero | |
| e. Veintinueve, treinta y uno | |
| f. Cuarenta y siete, cuarenta y nueve | |
| Ques. 7 Escribe el nombre del miembro de la familia. Write the name of the family member. | (2.5) |
| a. La hermana de mi padre es mi | |
| b. Los padres de mi padre son mis | |
| c. La mujer de mi padre es mi | |
| d. El hijo de mi tía es mi | |
| e. La madre de mi madre es mi | |
| Ques. 8 Cambia las siguientes palabras a plural. Change the words to plural. | (2.5) |
| Eg. Mesa = Mesas a. Rotulador | |
| b. Pez | |
| c. Lunes | |
| d. Canción | |
| e. Chico | |
| Ques. 9 Lee las frases y escribe verdadero o falso. Read the sentences and write true or false. | (3) |
| a. Este casa es de Juan | |
| b. Aquella bolso es negro | |
| c. Esa chica es mi amiga | |
| d. Estas mesas son nuevas. | |
| e. Esa ventana es marrón. | |
| f. Estos hermanas son bonitas. | |



| Ques. | 10 Relaciona los saludos y las desa Match salutations from Spanisl | edidas de español con inglés. 1 to English. | (2.5) |
|-------|---|--|-------|
| a. | Buenas noches | Thank you | |
| b. | Hasta pronto | Same here | |
| c. | Bienvenidos | See you soon | |
| d. | Gracias | Good night | |
| e. | Igualmente | Welcome | |
| Ques. | 11 Completa con el artículo determ Complete with determinate and | inado e indeterminado. I indeterminate article. | (2.5) |
| | e.g. Una bolsa (in) | | |
| | El cuaderno. (d) | | |
| a. | sillas (d) | | |
| b. | canción (in) | | |
| c. | bolso (d) | | |
| d. | estudiantes (in) | | |
| 0 | móviles (d) | | |



DEPARTMENT OF FOREIGN LANGUAGE

"End Term Examination, 2022"
Paper ID:

Semester: 3rd& 7° Subject: German

Branch: B. Tech/BBA/Law/B.Sc/B.cd

Course Type: Core

Time: 1 hour 30 minutes

Program: All

Date of Exam: 13 12,2022 Subject Code: £1 S 102 Session: Odd (II) Course Nature: Hard

Signatures HOD/Associate HOD: Qui part

| Student name: | Roll-No; | |
|---|------------|-----------|
| Note: All questions are compulsory. | | |
| Question I. | _ | |
| Lesen Sie den Text und antworten Sie! | | (5 marks) |
| (Read the text and answer the following | questions) | |

Vorstellung

Mein Name ist Anna. Ich kommeausÖsterreich und lebeseitdrei Jahren in Deutschland. Ich bin 15 Jahre alt und habezweiGeschwister: MeineSchwesterheißt Klara und ist 13 Jahre alt, meinBruder Michael ist 18 Jahre alt. WirwohnenmitunserenEltern in einem Haus in der Nähe von München. Meine Mutter istKöchin, meinVaterarbeitet in einer Bank.

Ich lese geme und mag Tiere: Wirhabeneinen Hund, zweiKatzen und im Garten einenTeichmitGoldfischen. Ich geheauch gerne in die Schule, meinLieblingsfachistMathematik. Physik und Chemie mag ich nicht so gerne.

Nach der Schule gehe ich oft mitmeinenFreundinnenim Park spazieren, manchmalessenwireinEis. Am Samstaggehenwir oft ins Kino. Am Sonntag schlafe ich lange, dannkoche ich mitmeiner Mutter das Mittagessen. Nach dem Essen gehenwirmit dem Hund am See spazieren. Sonntag istmeinLieblingstag!

| ı. | Beantworten | Sic | den | folgenden | Fragea: |
|----|---------------|------|------|------------|---------|
| (| Answer the fe | ollo | wing | questions. | .) |

| í. | Wie alt ist die Schwester von Arna? |
|------|--|
| ii. | Wo arbeitet der Vater von Anna? |
| iii. | Wohingeht die Familie am Sonntag mit dem Hund spazieren? |

| 1 | Sometimes- |
|---|--|
| | Parents- |
| ••• | archis- |
| Question Was kann (What can sentence.) | nst du in der Freizeit machen oder nicht machen? (3 Marks) n you or cannot do in free time? Look as the given pictures and write complete |
| | What do you do in your free time? |
| | |
| i | |
| ii. | |
| | |
| *** | |
| iii | |
| Question : Schreiben Write on i. Me | |
| Question : Schreiben Write on i. Me | 3. Sie über eins der folgendenThemen, eirea 60 Wörter. (6 Marks) any one of the topics given below.) in Freund/MeineFreundin |
| Question : Schreiben Write on i. Me | 3. Sie über eins der folgendenThemen, eirea 60 Wörter. (6 Marks) any one of the topics given below.) in Freund/MeineFreundin |
| Question : Schreiben Write on i. Me | 3. Sie über eins der folgendenThemen, eirea 60 Wörter. (6 Marks) any one of the topics given below.) in Freund/MeineFreundin |
| Question : Schreiben Write on i. Me | Sie über eins der folgenden Themen, eirea 60 Wörter. (6 Marks) any one of the topics given below.) in Freund/MeineFreundin ineFamilie |
| Question : Schreiben Write on i. Me | Sie über eins der folgenden Themen, eirea 60 Wörter. (6 Marks) any one of the topics given below.) in Freund/MeineFreundin ineFamilie |
| Question : Schreiben Write on i. Me | 3. Sie über eins der folgendenThemen,circa 60 Wörter. (6 Marks) any one of the topics given below.) in Freund/MeineFreundin ineFamilie |
| Question : Schreiben Write on i. Me | 3. Sie über eins der folgendenThemen,circa 60 Wörter. (6 Marks) any one of the topics given below.) in Freund/MeineFreundin ineFamilie |
| Question : Schreiben Write on i. Me | 3. Sie über eins der folgendenThemen,circa 60 Wörter. (6 Marks) any one of the topics given below.) in Freund/MeineFreundin ineFamilie |

| (Look for the words from the text.) |
|--|
| Sometimes- |
| n. Parents- |
| Question 2. Was kannet du in der Freizeit machen oder nicht machen? (Mhat can you or cannot do in free time? Look at the given pictures and write complete sentence.) What do you do in your free time? |
| |
| ī |
| ii. |
| iii. |
| Question 3. Schreiben Sie über eins der folgendenThemen.circa 60 Wörter. (6 Marks) (Write on any one of the topics given below.) i. Mein Freund/MeineFreundin ii. MeineFamilie |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

II. Suchen Sie die Wörter aus dem Text.

| | on 4. etzen Sie auf Englisch. | (4 Marks) |
|------|--|-------------------|
| | date into English) | , , , , , , , , , |
| i.e | Im Winter schneit es | |
| ii. | Eine Woche hat Sieben Tage | |
| iii. | Mein Geburtstagist am siebzehntenJuni. | |
| iv. | Der Unterrichtbeginnt um elf uhrvierzig. | |
| | on 5. t das? | (2 Marks) |
| | t das? is this?) | (2 Marks) |
| | t das? | |
| /ho | is this?) | |

| Question 6. | (5 Marks) |
|--|---|
| Ergänzen Sie die richtige verben. (Fill in the blanks with appropriate verb forms.) | (6.77 |
| (ist/kauft/bekommst/hat/bringt) | |
| i. Erzwei Kilo Tomaten. | |
| ii Was du heutezumGeburtstag? | |
| iii. Tina eine Cola und eineLimonademit | , |
| iv. Sie die Mutter von Tina und Marx. | |
| v. Mein Freund zweiGeschwister. | |
| Question 7. Schreiben Sie den Artikel (der/die/das)? — (Write the correct article.) | (3 marks) |
| iBleistift | |
| ii. Heft | |
| iiiFreundin | |
| ivKuli | |
| vLineal | |
| viTasse | |
| Question 8. Welches Wort past hier? (Fill in the blank with suitable word in German.) | (5 Marks) |
| in the standard (mein/meine/heißt/in/wohnt/E-mail address | e) |
| Servus,Name ist Roland Maurer Ich Linz.LinzliegtOsterreichFreundin Pasing.Dasliegtist roland.maurer(a)gmail.com. | 30 jahrealt.Ich in in in in in 0897654323 |
| Question 9. Welcher Tag oder Monat fehlt? (Which day or month is missing?) | (2 marks) |
| i. Heute istDienstag, Morgen ist | |
| ii. Es ist Herbst. Die Monatesind, | · |
| Question 10. Ergänzen Sie. (Fill in the blank with the appropriate information about 0 | (5 Marks) Germany): |

| Question 6. Ergänzen Sie die richtige verben. | (5 Marks) |
|--|-------------------------|
| (Fill in the blanks with appropriate verb forms.) | |
| (ist/kauft/bekommst/hat/bringt) | |
| i. Erzwei Kilo Tomaten. | |
| ii. Was du heutezumGeburtstag? | |
| iii. Tina eine Cola und eineLimonademit. | |
| iv. Sie die Mutter von Tina und Marx. | |
| v. Mein Freund zweiGeschwister, | |
| Question 7. Schreiben Sie den Artikel (der/die/das)? (Write the correct article.) | (3 marks) |
| iBleistift | |
| ii. Heft | |
| iii,Freundin | |
| ivKuli | |
| v. Lineal | |
| viTasse | |
| Question 8. Welches Wort past hier? (Fill in the blank with suitable word in German.) (ist/bin/wohne/mein/in/meine/heißt/in/wohnt/E-mail addresse | (5 Marks) |
| Servus, Name ist Roland Maurer Ich Strinz Linzliegt Osterreich Freundin Munchen Ihre Telefonnummer Meine ist roland maurer@gmail.com. | 30 jahrealt.Ichinininin |
| Question 9. Welcher Tag oder Monat fehlt? (Which day or month is missing?) | (2 marks) |
| i. Heute istDienstag, Morgen ist | |
| ii. Es ist Herbst. Die Monatesind | · |
| Question 10. Ergänzen Sie. (Fill in the blank with the appropriate information about G | (5 Marks) Germany): |

| A. When does the | Oktoberfest start? | |
|------------------|------------------------|----------------------|
| i. early N | lovember | |
| ii. mid-Sc | ptember | |
| B. Famous eat | able in Oktoberfest is | ? |
| i. Wurste | then | |
| ii. Ginger | Heart Bread | |
| C. Capital of C | Germany is | - |
| i. Wien | | |
| ii. Berlin | | |
| D. The famous | s river of Germany is | |
| i. Rhein | , | |
| ii. Hudso | n | |
| E. Lara komm | taus | Sie sprichtTürkisch. |
| i. Polen | | |
| ii. Die Tü | rkei | |

ALLES GUTE!





DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End Term Examination, December-2022"

| SEMESTER | 3 RD /5 TH | DATE OF EXAM | 19/12/2022 |
|--------------------|---|----------------------------------|----------------------------|
| SUBJECT NAME | Analysis & Design of Algorithms | SUBJECT CODE | CSH204B-T |
| BRANCH | Computer Science & Engineering (CSE)/AIML | SESSION | I |
| TIME | 9 AM – 12 Noon | MAX. MARKS | 100 |
| PROGRAM | B.Tech | CREDITS | 5 |
| NAME OF FACULTY | Dr. Susmita Ray,DR.HARSH,MS.PRIYANKA | NAME OF COURSE COORDINATOR | Mr. Anup Singh Kushwaha |

Note: Attempt all questions.

| 11010. | Attempt all questions. | | Con | | | |
|--------|---|-------|-------------------------|----------------------|-------|--|
| Q.NO. | QUESTIONS | MARKS | CO ADDR ESSE D | BLOO M'S LEVEL | PI | |
| | PART A | 1 | | | | |
| 1(A) | What is the complexity of Radix Sort Algorithm? Which sorting algorithm is used by Radix Sort? | 2 | CO2 | BT1, BT2 | 2.1.3 | |
| 1(B) | Bucket Sort uses Insertion Sort. Is the complexity of Bucket Sort Algorithm same as Insertion Sort or not? Justify your answer. | 2 | CO4 | ВТ3 | 2.2.3 | |
| 1(C) | What is the time complexity of the following pseudocode of an algorithm? p=0 for(i=1, i <n, (j="1," for="" i="i*2)" j="j*2)" j<p,="" p++;="" s;}<="" td="" {="" {statement="" }=""><td>2</td><td>CO4</td><td>втз</td><td>2.2.3</td></n,> | 2 | CO4 | втз | 2.2.3 | |
| 1(D) | Name 2 sorting algorithms which uses Divide & Conquer Approach? | 2 | CO1 | BT2 . | 2.1.3 | |

| 1(E) | Which are the Recurrence R | four elatio | differen | nt app | roach | es for | solving | 2 | COO | BT1 | |
|-------|---|---------------------------------------|--|--|----------------------------|--------------------------|---|-----------------------------------|---------------------|---------------------|---------------|
| | <u> </u> | | | | | | | 2 | CO2 | 4 | 2.1.3 |
| | Frankin Di i | |] | PART | <u>B</u> | | | | | | to the second |
| Q2(A) | Explain Divid Write the algo complexity. | e and orithm | of Mei | er stra | itegy v | with and derive | n example. e its | 8 | CO2 | BT2 | 2.1.3 |
| 2(B) | Use Merge So numbers. Trac 60, 23, 38, 76, | e all s | teps of | execu | the fo | ollowi f sorti | ng set of ng algorithm: | 2 | CO3 | BT3 | 2.2.3 |
| | | | <u>P</u> / | ART (| C | | | | 1 | | |
| Q3(A) | Write the Accomplexity. N | ctivity ame t | the algo | orithm | Algor desi | ithm gn str | ategy used to | 5 Marks Breakup:(2+1+2) | CO1, CO2, CO3 | BT2, BT2, BT3 | 2.1.3, |
| | Apply Activit sequences of times as provid | seque | lection ncing a | activit | ies w | for ith sta | algorithm. finding two art and finish | | | | 2.2.3 |
| | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1 8 | 5 6 5 8 9 10 | 7 9 11 | 8 11 14 | 9 13 16 | | | | | |
| | Write the Job find its comple used to formula Apply Job se scheduling the j following table. the problem solu | exity. te this equence obs w Show | Name algorite with spent of the step of th | the a hm. rith I cified by ste | lgoritl Deadli deadl | um de ne al ine as | gorithm for given in the | 5 Marks Breakup:(2+1+2) | CO1, CO2, CO3 | BT2, BT2,BT 3 | 2.1.3, 2.2.3 |
| | INDEX | 1 | 2 | 3 | 4 | 5 | | | | | 1 2 |
| | JOB | j1 | j2 | ј3 | j4 | j5 | | | | · . | |
| | DEADLINE | 2 | 1 | 3 | 2 | 1 | | | - | ř., | 2 |
| | PROFIT | 60 | 100 | 20 | 40 | 20 | | | ļ | F*_ 1 | |

| THE RESERVED | | 1 | | | |
|--------------|---|---|-------------|-----------------|-----------|
| | | | | | |
| Q4(A) | Explain briefly Minimum Cost Spanning tree with an example. Write Prim's Algorithm to generate MST for any weighted graph. Analyze the time complexity of the algorithm | 6 | CO1, CO4 | BT2, BT2,BT4 | 2.1.3 |
| 4(B) | Use Prim's Algorithm to generate the Minimum Cost Spanning Tree of the following graph: | 4 | CO3 | BT3 | 2.2.3 |
| | 15 14 5 11 22 3 | | | | 1 2 |
| | 21 | 5 | | = 1- | , , , , , |
| | Explain briefly the Dynamic Programming strategy of designing algorithm. Write the Algorithm of Matrix Chain Multiplication using Dynamic Programming strategy. | | CO1 | | 2.1.3 |
| Q5(A) | a roganisming strategy. | | | BT2, BT2 | 2.3.0 |
| | • | 5 | CO3 | BT4 | 2.2.3 |
| | Use Dynamic Programming method to multiply the chain of 3 Matrices namely A1, A2, A3. Following are the dimensions of the matrices: | | , . | | |
| | A1:[2 x 3] A2:[3 x 4] A3:[4 x 2] | | | | |
| 5(B) | To obtain $M = A1 \times A2 \times A3$ find out the cost of computation of multiplication of this Matrix Chain and the order in which the matrices need to be multiplied together. Show computation of all cells of the cost computation matrix and all cells of the matrix which stores optimal parenthesization (/sequence) of matrix chain multiplication. | | - 1 | | |
| Q6(A) | Explain with example optimal binary search tree | 4 | CO1, CO2 | BT2 | 2.1.3 |
| 6(B) | Find the Optimal Binary Search Tree for the following set of keys and search frequencies using Dynamic Programming method for successful search only | 6 | CO3, CO4 | BT3, BT4 | 2.2.3 |
| | | | 1.0 | 1 | |

| | Index | 1 | 2 | 3 | 4 | ٦ | | | 122 | 4.1. |
|---------------|-----------------------|---|-----------|--------------------|-----------|-------------------------|-------|--------|--------|-------------------|
| | Keys | 12 | 15 | 20 | 25 | 1 | | 56 H S | | |
| To nath | Search Frequencies | 4 | 3 | 6 | 2 | 1 | | п | 1 | |
| | Trequencies | | | | | 1 | _ | | 40 | y |
| | Show all steps of | computa | tion in l | buildin | g the me | morization matrix. | | | | |
| A SECURITY | Analyse the matrix | x to fin | d the or | timal t | oinary se | arch tree organization | | | | |
| | | | | | | | | 7 | | |
| | ink) | | <u> </u> | PART | <u>D</u> | | | | | 1 1 |
| | What is Backtrack | ina etrot | ami fan | -1ie | 4 | CO1, | BT2, | | | |
| Q7(A) | from Brute Force | at is Backtracking strategy for algorithm design? How is it different n Brute Force approach? | | | | | | | BT4 | |
| | | | | | | | 6 | | BT3 | 2.13. |
| | Space Tree. | algorithn | n to sol | ve 4-Q | ueen pro | blem by drawing a State | | CO3 | 1 2.0 | |
| 7(B) | | | | | | | | | | 2.2.3 |
| | What are the three | formula | ions of | Graph | Colouri | ng Problem? | 3 | | | |
| Q8(A) | | | | | | | - | CO1 | BT2 | 2.1.3 |
| | W. | | | | | | 7 | | | - to |
| 新 | Use Backtracking | Approacl | to det | ermine | all the p | ossible solutions for | ' | | втз | |
| Ter Control | Determine the chro | or the ro | mber o | graph of the or | by draw | ing State Space Tree. | | CO3 | 1 213 | |
| Made | are state | matio ii | unoci o | t the gi | ари. | | 1 | | | 2.2.3 |
| | | | | | | | | 1 | | |
| | $\overline{1}$ | | | -(2 | (?) | 2.6 | | | | |
| | ľ | | | 7 | | | | 21 " | 1 | |
| | | | | | | | | | | |
| | (4) | | | <u> —(3</u> | | | | | i' | |
| | | | | | , | | | | 10 = - | Committee and the |
| 8(B) | | | | | | | | | | |
| | | | | | | | 5 | - | BT2 | |
| | Explain briefly the I | Branch-N | I-Bound | d techn | ique use | d in algorithm design. | | CO1 | | |
| Q9(A) | Explain with examp | les the 3 | differe | nt Bran | ich and E | Bound techniques. | | | m 35 | 2.1.3 |
| | | | | | | | 5 | | ВТ3 | |
| | Solve the following | 0/1 Knap | osack P | roblem | using B | ranch and Bound | | CO3 | | |
| | Toominque. Draw St | ate space | ree | ın solv | ing the p | roblem step by step: | | | | 2.2.3 |
| | 4 | | | | | | | | | |
| | M=15, n=4, (p1, p2, | p3, p4) = | = 10, 10 |), 12, 1 | 8 and (w | 1, w2, w3, w4)=(2, 4, | | | 14 | |
| | 6, 9). | 7 83 1 | | | -, (| -,,, (2, 4, | | i. | | |
| 9(B) | | | | | | | 7 | | | |
| | | | | | | | | | | |
| 提施量 | Define P, NP, NP-Ha | ard, NP o | omplet | e class | es of pro | blem with suitable | | CO5 | DTO | |
| 10 | examples. | | | | - | | 10 | 403 | BT2 | 2.1.2 |
| Bright Bright | **** | **** | habataa | atri) | AND SE | | | | | 2.1.2 |
| 更加。 | | ~ | NOT THE | -10750-500 | | ND ***** | ***** | ***** | * | |



DEPARTMENT OF COMPUTER SCEINCE AND ENGINEERING

"End Term Examination, Dec-2022"

| SEMESTER | CSE 5 | DATE OF EXAM | 13/12/2022 |
|--------------------|-----------------|-------------------------------|-------------------------|
| SUBJECT NAME | ADVANCED JAVA | SUBJECT CODE | CSH308B-T |
| BRANCH | CSE (A/B) | SESSION | I (9.00AM - 11.00AM) |
| TIME | 2 Hrs | MAX. MARKS | 50 |
| PROGRAM | B.Tech | CREDITS | 2 |
| NAME OF FACULTY | Dr. RANJNA JAIN | NAME OF COURSE COORDINATOR | Dr. RANJNA JAIN |

Note: Part A & Part B: All questions are compulsory.

| Q | NO. | QUESTIONS | MARKS | CO ADDRESSE D | BLOOM'S LEVEL | PI |
|--------|------|--|-------|---------------------|------------------|--------------|
| | 1(A) | Name the different types of session tracking in servlet and web application. | 2 | CO3 | BT2 | 2.1.2 |
| PART-A | 1(B) | Define the concept of Encapsulation with the help of java program. | 2 | CO1 | ВТ2 | <u>1.2.1</u> |
| Γ-A | 1(C) | Differentiate between Iterator &ListIterator. | 2 | CO2 | BT1 | 2.2.5 |
| | 1(D) | What is the function of Service () method in the lifecycle of Servlet? | 2 | C03 | BT1 | 5.1.1 |
| | 1(E) | What directive will be used to add library in the JSP page? Write its syntax as well. | 2 | CO4 | ВТ3 | 3.4.2 |
| | 2(A) | What are the steps involved in making JDBC connectivity? | 5 | CO1 | BT2 | 2.1.1 |
| | 2(B) | Create a simple calculator application using servlet. | 5 | CO3 | ВТ3 | 4.2.1 |
| PART-B | 3(A) | Explain the Architecture of JSP. | 5 | CO4 | BT2 | 3.2.1 |
| В | | Write a JSP program which reads username and password input by user on an HTML page.On submission check username and password against any default value in servlet program, if both detail matches redirect user to new home | | | | |
| | 3(B) | page or else redirect to an error page. | 5 | CO4 | ВТЗ | 2.3.1 |

| - 4 | | Note: Create error page using page directive. | | | | |
|-----|------|--|---|-----|-----|-------|
| | 4(A) | What are generics and how to use it? Demonstrate with the help of java program. | 5 | CO2 | BT3 | 2.2.3 |
| | 4(B) | How to pass initialization parameters to a servlet in java using servletconfig interface. Demonstrate the same using Java program. | 5 | CO3 | вт3 | 4.3.1 |
| | 5(A) | Explain MVC design Pattern in detail. | 5 | CO5 | BT2 | 5.1.1 |
| | 5(B) | Differentiate between GET and POST method. Mention examples also. | 5 | CO3 | BT3 | 2.2.5 |



DEPARTMENT OF DEPARTMENT OF COMPUTER SCIENCE & **TECHNOLOGY**

"End Term Examination

Dec-2022"

| | Ella I el III Exame | | | 4 |
|---|--|---|------------------------|---|
| SEMESTER SUBJECT | 5 Network Security | DATE OF EXAM SUBJECT CODE | 3.12.2022 CSH329B-T | |
| NAME BRANCII TIME PROGRAM NAME OF FACULTY | CSE (CSTI) 9.00 Am to 12.00 Noon B.Tech Mr. Sujeet | SESSION MAX. MARKS CREDITS NAME OF COURSE COORDINATOR | | |
| | 100 | . Ougstions will be of S | short answer type (2 | |

Note: Part A: All questions are compulsory. Questions will be of short answer type (2

Marks).

Part B: All questions are compulsory. Questions will be of short answer type and brief answer type(2,4 Marks).

Part C: All questions are compulsory. Questions will be of descriptive type or scenarios based. Each question will be of (10 Marks).

Part D: All questions are compulsory. Questions will be of descriptive type or scenarios based. Each question will be of (10 Marks).

| Q.NO. | QUESTIONS | MARKS | CO ADDR ESSED | BLOOM'S LEVEL | PI. |
|-----------------------------|---|-------|---------------------|------------------|-------|
| P A R A(1) A(2) | What are the difference between packet analysis and packet forwarding? Explain each with the help of example. Differentiate between network security and wireless network security. Explain each with the help of real life scenarios. | 2 | CO1 | L1,L2 L2,L3 | 1.2.1 |

| 675Y57 | THE THE | | | | | |
|-------------|---------------|---|----|-----|--------|-------|
| | A(3) | What are the difference between Morris Worm and Mellissa Worm? Explain in detail. | | | | |
| | | Explain in detail. | 2 | CO1 | L1,L2 | 1.4.1 |
| | A(4) | Explain the difference between Denial of Service Attack and Man In The Middle attack with the help case study. | 2 | CO1 | L2,L3 | 2.2.1 |
| | A(5) | What is Distributed Denial of Service attack? How it affects the systems performance? | 2 | CO1 | L1,L2 | 2.2.1 |
| | B(1) | What do you understand by Email Encryption? Explain with the help of example. | 2 | CO2 | L1,L2 | 1.2.1 |
| PA RT | B(2) | Write a short note on SMTP, HTTP, HTTPS FTP, SSH, SSL, TCP and UDP with port number? | 2 | CO2 | L1,L2 | 1.2.1 |
| -B | B(3) | Define Mobile device security. Explain with the help of case study. | 2 | CO2 | L1,L2 | 2.2.1 |
| | B(4) | What do you understand by intrusion prevention systems intrusion detection systems? Explain both with the help of case study. | | CO2 | L2, L3 | 1.2.1 |
| P A R | C(1) | What do you undo stand common lower-layer protocols and common upper-layer protocols? Explain both with the help of real world scenarios. | | CO3 | L2, L3 | 2.2.1 |
| T-C | C(2) | Describe in brief about Access control. What do you understand by one factor authentication, two factor authentication and multifactor authentication? Explain each with the help of real life scenarios. | | CO3 | L3, L4 | 1.2.1 |
| | C(3) | Define open systems interconnection layer. Explain each layer with the help | 10 | CO3 | L2, L3 | 2.2.1 |
| 1 July 1 | NA 1298/11/22 | ***** | | | | |

8.3

| | | of diagram. What are the difference between TCP/IP model and OSI model explain with the help of real life scenarios. | | | | |
|------------------------|------|---|----|-----|--------|-------|
| | C(4) | What do you understand by proxy? Discuss the advantages and disadvantages of configuring the proxy with the help of example and also mention the few tools that can be used for setting up. | 10 | CO3 | L2, L3 | 1.2.1 |
| | D(1) | Define scanning. Explain different types of Scanning and Analysis tools available. Describe in brief Port Scanners with help of example. | 10 | CO4 | L1, L2 | 2.2.1 |
| | D(2) | How we can enhance the network security with respect to network physical devices and software's (tools, updates and patches) explain in points. | 10 | CO4 | L2, L3 | 2.1.1 |
| P A R T- D | | Tina used their Microsoft account on a lab computer. She made sure her account was no longer open in the browser before leaving the lab. Someone came in behind her and used the same browser to re-access her account. | | | | 3 |
| | D(3) | How it was possible? | 10 | CO4 | L3, L4 | 2.1.1 |
| | | A cousin sent an electronic e-greeting card to your work email. You need to click on the attachment to see the card. | 7 | | | |
| | D(4) | What will be your response? | 10 | CO4 | L3, L4 | 1.4.1 |





IFORMERLY MANAY RACHNA COLLEGE OF ENGINEERING NAAC ACCREDITED 'A' GRADE INSTITUTION;

Declared as State Private University under section 2f of the UGC act, 1956

DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"T3 Examination, Dec. -2022"

| SEMESTER | 5th | DATE OF EXAM | 16/12/22 | |
|--------------------|--------------------|----------------|---------------|------|
| SUBJECT NAME | Advanced Database | SUBJECT CODE | CSH304B-T | 1 |
| | Management Systems | | | |
| BRANCH | Comp. Sc. & Engg. | SESSION | I | 1 |
| TIME | 3 hrs. | MAX. MARKS | 100 | i |
| PROGRAM | B. Tech. | CREDITS | 3 | 1 |
| NAME OF | Pramneet Kaur | NAME OF COURSE | Pramneet Kaur | 1 |
| FACULTY | | COORDINATOR | | HL |
| Note: All question | ns are compulsory. | • | ment. | W. I |

| Ç | Q.NO. | QUESTIONS | MARK S | CO ADDRESSE D | BLOOM' S LEVEL | PI |
|--------|-------|---|-----------|---------------------|-------------------|-------|
| A | 1(A) | Differentiate between ER-Model and Object-oriented Model with the help of an example | 5 | C01 | BT1,BT2, | 1.1.2 |
| PART / | 1(B) | Construct an E-R diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted. | | CO1 | BT1,BT2 | 1.1.1 |
| B | 2(A) | Explain Two-tier and three tier architecture with suitable example. | 5 | C02 | B1,BT3 | 1.2.1 |
| PART B | 2(B) | Given a relation R(P, Q, R, S, T, U) and Functional Dependency set FD = $\{PQ \rightarrow R, SR \rightarrow PT, T \rightarrow U\}$, determine given R is in which normal form? | 5 | CO2 | BT2,BT3 | 1.3.1 |
| | 3(A) | What are Reliability and Commit Protocol, Fragmentation and distribution. Explain | 10 | CO3 | BT1,BT2 BT3 | 1.3.1 |
| PARTC | 3(B) | Differentiate between the following a) Parallel and Distributed Databases b) Federated and Unfederated Database design | 10 | CO3 | BT1,BT3 | 1.3.1 |
| | 4(A) | What are the points of comparison between Deductive and Non | 10 | CO3 | BT1,BT2 | 1.3.1 |

| | 100 | deductive databases. Discuss the |] | 1 | ľ | |
|----------|------------|--------------------------------------|------|---------|---------|-------|
| 100 | | features of Parallel databases | | | | |
| 1000 | | architecture and draw comparison | | | | |
| | Harry I | between Deductive and Parallel | | | | |
| LINE TO | | databases | | | | |
| 0.00 | | Discuss the following: | | | | |
| | | a) Prolog Notation | | | | |
| | | b) Data log Notation | | 2 | | |
| Party of | | c)Clausal Form | | | | |
| 771tc | 4(B) | d) Horn Clauses | 10 | CO4 | BT2 | 2.1.2 |
| 244 | | Explain with example the Multimedia | | | | |
| | 5(A) | Database Architecture | 10 | CO4 | BT2 | 2.1.2 |
| | | Discuss the Spatial Data Model, | | | | |
| 26 | 5(B) | Components and characteristics | 10 | CO4 | BT2 | 2.1.2 |
| O L | | What is Digital Library and their | | | | |
| PART | | components? Discuss the advantages | | J | | |
| 4 | 3200 | and disadvantages. Compare them | | | | |
| 4 | 6(A) | with traditional libraries | 10 | CO4,CO5 | BT2 | 2.1.3 |
| PEN | E State | Discuss the components, | | | | |
| | Election 1 | characteristics, merits and demerits | | | | |
| | 6(B) | of Temporal Databases | 10 | CO5 | BT1,BT2 | 2.3.1 |
| 100000 | | ***** | *** | | | |
| | | END | TARA | | **** | |



DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End Semester Examination, Dec-2022"

| SEMESTER | V th | DATE OF EXAM | 16.12.2022 |
|--------------------|--------------------------------|-------------------|----------------|
| SUBJECT NAME | SOFTWARE PROJECT MANAGEMENT | SUBJECT CODE | CSH307B-T |
| BRANCH | CSE | SESSION | 9AM-12PM |
| TIME | 3Hrs | MAX. MARKS | 75 |
| PROGRAM | CSE | CREDITS | 4 |
| NAME OF FACULTY | Mr. Agha Imran | NAME OF COURSE | Mr. Agha Imran |
| | | COORDINATOR | - Her |

Note: Attempt all questions.

| Q.l | NO. | | QUESTIONS | | | M A R K S | CO ADDRESSED | BLOO M'S LEVEL | P≬ |
|--------|-----|---------------------------------------|--|---------------------------------------|---|-----------------------|-----------------|----------------------|-------|
| PART-A | Q1. | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | What you understand by work break structure (WBS)? What are the various types of WBS? What is the role of WBS directory and what the contents of it? Explain. Draw product breakdown structure and product flow diagram for online ticket reservation. | | | 15 | CO1 | BT2, BT3 | 2.2.2 |
| PART-B | Q2. | E | Activity A B C D E F Determine the | Predecessor Activity A A B C D,E | Duration (Weeks) 3 5 7 10 5 4 se critical activities and | 15 | C01 | втз | 2.2.2 |

| PART-C | Q3 (A) | What would be the basic COCOMO equations form? A project size of 500 KLOC is to be developed. Software development team has average experience on similar type of projects. The project schedule is not very tight. Calculate the Effort, development time, average staff size, and productivity of the project. | 15 | CO2 | втз | 3.2.2 |
|--------|-----------|--|----|-----|-----|-------|
| C | Q3 (B) | Define contract management, What are the advantages & disadvantages of fixed price contracts? | 10 | CO3 | BT2 | 3.2.4 |
| PART | Q4 (A) | Differentiate between Six Sigma and CMM model, what are their consideration factors? | 10 | CO4 | BT2 | 4.1.2 |
| RT -D | Q4 (B) | Define the Characteristics of software quality and explain the ISO 9126 related to it. What are the areas for which it is used? | 10 | CO5 | BT2 | 4.2.2 |



DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"T3 Examination, Dec. -2022"

| SEMESTER | 5th | DATE OF EXAM | 16/12/2022 |
|--------------|---------------------|----------------|------------|
| SUBJECT NAME | System & N/w Admin. | SUBJECT CODE | CSH306B-T |
| BRANCH | CSE/AIML/CDA/CSTI | SESSION | I |
| TIME | 3 hr. | MAX. MARKS | 75 |
| PROGRAM | B. Tech. | CREDITS | 4 |
| NAME OF | Narender | NAME OF COURSE | Narender |
| FACULTY | | COORDINATOR | |

Note: All questions are compulsory.

| PARTA | 1(A) 1(B) 2(A) | Differentiate the tasks and responsibilities of System administrator and Network administrator. What are various file system and standards. Explain in detail. | 5 | CO1 | BT1 | |
|----------|----------------------|---|----|-----|-----|-------|
| | Project of | standards. Explain in detail. | l, | | | 1.1.1 |
| | 2(A) | TATIL | 10 | CO1 | BT2 | 1.1.2 |
| m | | What is process? Explain UNIX process model. | 5 | CO2 | BT2 | 1.3.1 |
| PARTB | 2(B) | What do you mean by Redundant array of independent disks? Explain in brief. | 5 | CO2 | BT2 | 1.4.1 |
| PARTC | 3(A) | An ISP is granted a block of addresses starting with 190.100.00/16 (65,536 addresses). The ISP needs to distribute these addresses to three groups of customers as follows: a. The first group has 64 customers; each needs 256 addresses. b. The second group has 256 customers; each needs 64 addresses. c. The third group has 128 customers; each needs 64 addresses. Design the sub-blocks and find out how many addresses are still available after these allocations | | | | 2.1.3 |

| | 3(B) | Explain the concept of routing. Differentiate the inter-domain and intra-domain routing in detail. | 10 | CO3 | BT2 | 1.1.2 |
|--------------|-------------|--|----|-----|-----|-------|
| FREE | | Security is a major concern today. | | | | - |
| | HO W | How can a system or Network | | , | | |
| | | administrator can help in this? Explain different backup methods | | | | |
| PARTD | 4(A) | also. | 10 | CO4 | BT2 | 2.1.1 |
| AR | To the last | Explain system tools and GUI tools | | | | |
| <u>a</u> | 4(B) | in detail. | 10 | CO4 | BT2 | 1.4.1 |
| | TOWN BE | Write short notes on any one: | | l' | | |
| | | a. Patches | | | | |
| and the same | 4(C) | b. TCP wrappers | 5 | CO4 | BT2 | 2.1.1 |



DEPARTMENT OF Computer Science & Technology

"End Term Examination,Dec-2022"

| SEMESTER | 5 th (CDA/CSTI)/7 th (DSML) | DATE OF EXAM | 19.12.2022 |
|--------------------|---|----------------------------------|--------------------|
| SUBJECT NAME | THEORY OF AUTOMATA AND COMPILER DESIGN | SUBJECT CODE | CSE 311B-T |
| BRANCH | CST | SESSION | MORNING |
| TIME | 9:00-12:00 | MAX. MARKS | 100 |
| PROGRAM | ВТЕСН | CREDITS | 4 |
| NAME OF FACULTY | DEEPANSHI GUPTA | NAME OF COURSE COORDINATOR | DEEPANSHI GUPTA |

Note: Part A: All questions are compulsory.

| Q.NO. | | QUESTIONS | MARKS | CO ADDRESSED | BLOOM'S LEVEL | PI |
|-------------------|----------|--|-------|-----------------|------------------|-------------------|
| P A R T- | Qí | Define Grammar with example. Design the PDA which recognize the string of the tape $L = \{ a^n b^{2n} \sum = \{a,b\} \}$ | 10 | C02,C03 | BT1,BT2 | 1.3. |
| PA RT -B | Q2 | Define NFA and DFA. Design a Turing machine that accepts all strings consisting of even numbers of 1's | 10 | CO1, CO3 | BT1,BT2 | 2.3. |
| P A | Q3 | What is first and follow? Why it is important in compiler Design? Justify your answer with example. Construct parsing table for LR(0) items for the following grammar. S-> Aa bAc dc bda A->d | 20 | CO4 | BT2 | 2.2. 2 |
| R T- C | Q4 Q5 | Show that the following grammar $S \rightarrow AaAb \mid BbBa A \rightarrow \epsilon B \rightarrow \epsilon$ is $LL(1)$ but not $SLR(1)$ Explain rules to eliminate left recursion with example. Also explain left factoring in detail with example. | 10 | CO4 | BT3 | 2.3. 1 1.3. |
| P | Q6 | Develop a syntax directed definition for the grammar. Draw an annotated parse tree for | 15 | CO5 | BT2 | 2.3. 1 |

| A | | the input expression: (3*2+2)*4 | | | | |
|-----|----|--|---------------|--------|-----|------------|
| R | 07 | Explain Peephole Optimization in detail. | 10 | CO5 | BT1 | 1.1. 1 |
| T-D | | (a) Discuss synthesized and inherited attributes using a suitable grammar. | , | | | |
| | 08 | (b) What is intermediate code? What is its importance? Discuss various representations of three address code. | 15 | CO5 | BT1 | 1.3. 1. |
| | Qo | ATTION OF THE PARTY OF THE PART | Marine Marine | ****** | * | |





| 0 171 | 13.12/5 | Under the Minter | DEPARTMEN | r of comput | ER SCIENCE & TECHNO | 2011年7月1日 1550年7月1日 2011年7月1日 1550年7月1日 | 100 - 40 - 50 | WIND COMPANY | Marie A Marie |
|---|---------|---|--|---|---|--|---------------------|--------------|---------------|
| | | 1 1 1 1 1 1 1 1 1 1 | The state of the s | J.D. SEMESTE | NAME OF COURSE COORE | VINATOR. | | audharv | 366,113 |
| FACULTY NAME: Dr Neelu Chaudhary COURSE NAME: Data COURSE CODE: Structures COURSE CODE: CREDIT: 03 MAX. MARKS: 50 | | | | | | TIME | ION: 2:00 | 190 | |
| | | B.Tech ME-SI | MA | SEMESTER: | 5th | | | - | 1 |
| Note: | All Qu | estions are C | Compulsory. | | | | | Mr | Pa |
| Part | Q.NO | | QUI | STIONS | | MARKS | CO ADDRES SED | M'S LEVEL | r PJ |
| A | 1 | a) Find the nub) Suppose BFind the addr | ress of YYY[1942], an | each array. =4 words per d YYY[1988]. | memory cell for YYY, | 5 | CO1 | втз | 1.4.1 |
| В | 2 | 1,25*** | orithm to insert eleme | , | | 5 | CO2 | BT2 | 1.4.1 |
| | 3a | top when the | re are 5 elements in s | tack. | nat will be the value of | 5 | CO1, | вт3 | 1,4.1 |
| (5,05) | 3b. | C=2 D=3) | | | ^*- (IF A = 150, B=10, | 5 | CO1, CO3 | вт3 | 1.4.1 |
| C | 4a | through arra completely fi | lled/empty | lue of Front a | nd Rear when queue is | 5 | CO1, | вт3 | 1.4.1 |
| | 4b | memory cells i) FRONT=4 ii) FRONT=1 | s. Find the number of , REAR=8; 10,REAR=3 | elements in Q | | 5 | CO3 | BT3 | 1.4.1 |
| | 5a | yield the folk Inorder:- D | e T has 9 nodes. The i owing sequences of n H B E A F C I G H D E B F I G C A | norder and pr odes: | eorder traversals of T | 5 | CO1.CO4 | втз | 1.4.1 |
| D | 5b | 10 8 15 25 2 | | • | | 5 | CO4_ | ВТ4 | 1.4.1 |
| -1 | ба | | | | arch an element in a tree. | 5 | CO1,CO4 | BT2 | 1.4.1 |
| 170 | 6b | Calculate the | e total number of edg I graph when the nun | es in a comple iber of connec | te a) directed graph and ted nodes is 12. | 5 | CO4 | вт3 | 1.4.1 |
| | | | Total M | a r k | | | | 50 | |



DEPARTMENT OF CST

"End Term Examination, Dec-2022"

| SEMESTER | 5 | DATE OF EXAM | 17/12/2022 |
|--------------------|--|----------------------------------|------------------|
| SUBJECT NAME | Green Computing | SUBJECT CODE | CSS325B-T |
| BRANCH | CSE/AIML/COA/CSTI | SESSION | II |
| TIME | 1 ½ hours | MAX. MARKS | 25 |
| PROGRAM | B Tech | CREDITS | 2 |
| NAME OF FACULTY | Dr. Sachin Lakra Mr. Sanjay Kumar Mr. Narender | NAME OF COURSE COORDINATOR | Dr. Sachin Lakra |

Note: Part A: All questions are compulsory.

Part B: All questions are compulsory.

| Q.NO. | | QUESTIONS | MARKS | CO ADDRESS ED | BLOOM' S LEVEL | ΡΊ |
|---------|----------|---|----------------|---------------------|-------------------|----------------|
| Transit | 1(A) | Define recycling. | 2 | CO5 | BT2 | 7.2.2 |
| V | 1(B) | Name any 2 toxins found in a computer. | 2 | CO1 | BT1 | 7.1.1 |
| | 1(C) | State 2 properties of energy-efficient software. | 2 | CO5 | BT2 | 7.1.2 |
| 2 | 1(D) | Name any 2 global centers of e-waste disposal. | 2 | CO2 | BT1 | 7.2.1 |
| PART-A | 1(E) | Give 2 differences between green computing and sustainability. | 2 | CO1 | BT2 | 7.1.1 |
| | 00 | What is E-waste? What are the various types of e-waste being produced by human beings? Suggest one way each for processing each of the types of e-waste you have mentioned. | 1+ <u>2</u> +2 | CO1 | ВТ3 | 1.3.1 6.1.2 |
| PART-B | Q2 Q3 | What is the purpose of a data center? What should be the strategy which should be followed by a company such as Google to make one of its data centers green? | | CO3 | втз | 7.2.2 |
| Ь | Q4 | Differentiate between telecommuting and outsourcing. What advantages have been observed for the environment due to "Work from Home" during the Covid lockdown? | 2+3 | C04 | BT3 | 2.2.4 7.2.2 |



MANAV RACHNA UNIVERSITY Declared on Strate Private University vide Harymon Act 76 of 7014

| Semester: 5 Subject Code: CDO301 | | 5 | Subject: PCE-III | | | NAME: | | | | | |
|-------------------------------------|---------------|---|------------------|-------------------------|---------------|---|--------------------|----------------|-----------------|--|--|
| | | | ime: 60 Mir | | Roll No: | | | | | | |
| Max Marks: 50 Scation . II | | | I s | t 14/12/2 | 0.22 | | Branch: CST/ME/ECE | | | | |
| Inswers | No negative | estions are com marking. Calco tside the answ | ulator is no | t allowed. A | nswers are | | | er table only | <i>.</i> | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | | |
| | | | | 8 | we . | i. Anticolo i | | | vo a voeta | | |
| in the c | pposite dire | ection to pass h | nim. If the g | goods train i | s 375 m lon | | eed? | ls for a good | s train travell | | |
| A. 25 ki | mph | B. 40 kmp | | C. 35 km | | | | | to nace the of | | |
| 2. TWO | trains, 130 r | n and 110 m lo are moving in | ong, are goi | ng in the sai | me airection | n. The faster | aletely in 3 s | econds Find | the speed of | | |
| | ter train? | are moving in | opposite u | rections, the | cy pass coci | t derice com | siciety in 3 s | | the speed of | | |
| A. 38 m | | B. 46 m/s | | C. 42 m/ | ' s | D. None of these | | | | | |
| 3. Two | trains runnir | ng in opposite | | | | | | nds and 34 s | econds | | |
| respect | ively and the | ey cross each o | ther in 46 | seconds. The | e ratio of th | eir speeds is | ? | | | | |
| A. 1:3 | arely and an | B. 3:2 | | C. 3:4 D. None of these | | | | | | | |
| 4. A bo | at running u | pstream cover | s a distance | of 10 km in | 30 minute | s and while i | running dow | instream, it o | overs the san | | |
| distanc | e in 25 min. | What is the sp | eed of the | river current | t (in kmph)? | | | | | | |
| A 25 k | mph | B. 2.2 km; | ph | C. 2 kmph D. C | | | say | | | | |
| 5. Ram | goes downs | tream from on | e port to a | nother in 4 | i. He covers | the same di | stance upst | ream in 5 h. | If the speed o | | |
| the stre | am is 2 km/ | h, find the dist | ance betwe | een the two | ports? | | | | | | |
| 4 50 kg | m | B. 60 km | | C. 70 km | | D. 80 km | | | | | |
| 6. Two | boats, trave | lling at 7 km/h | and 8 km/f | n, head direc | tly towards | each other. | They begin | at a distance | of 20 km from | | |
| each ot | her. How far | r apart are the | y (in km) or | ne minute be | efore they c | ollide? | | | | | |
| A. 1/12 | km | B. 1/6 km | | C. 1/4 kr | ri | D. 1/3 km in a certain river in six hours less than it takes him t | | | | | |
| 7. At hi | s usual rowin | ng rate, Mohit | can travel | 12 miles dov | vnstream in | a certain riv | er in six hou | irs less than | it takes him to | | |
| travel t | he same dist | tance upstream | n. But if he | could doubl | e his usual i | owing rate i | or this 24 m | ne round trip | o, the | | |
| downst | ream 12 mil | es would then | take only o | ne nour less | than the u | pstream 12 | mues, what | is the speed | or the curren | | |
| | per hour? | 0.4/3 | | C. 5/3 | | D. 8/3 | | | | | |
| A. 7/3 | | B. 4/3 still water is 1 | E beside 14/1 | illa chiar le fi | nuine with | a spend of 6 | kenth and | ime taken to | cover a certa | | |
| 8. A bo | at's speed in | is 2 h more tha | o timo take | in to cover t | he same die | tance down | stroam fine | the distance | n? | | |
| | | D 21 km | | (41 5 6 | (T) | 1) 1/ 60 | 1 | | | | |
| A. 30.5 | km | ork, A and B tal | ke 30 days | B and C take | e 24 days a | nd C and A t | ake 20 days | They all star | rt together an | | |
| 9. To co | implete a wo | er which B and | Cleave Ho | w many day | a will A take | n to finish th | n ramainina | work? | | | |
| work fo | r 5 days afte | er which b and | C leave. No | C 33 | - WIII A TAK | D 10 | e remaining | WUINT | | | |
| A. 11 | | B. 28 | | C. 33 | | D. 18 | | | i. | | |

10. A can do a job in 20 days, B in 30 days and C in 60 days. If A is helped by B and C every 3rd day. How long will it take for them to complete the job?

A. 12 days

B. 4 days

C. 15 days

D. 18 days

11. If a soldier fires 7 shots from a gun in 12 minutes then find the total number of shots fired by the man in 3/2 hrs.

A. 45

B. 44

C. 46

12. A woman fills a bucket in 6 minutes. 1845 buckets have to be filled from 8 am. to 9:30 am. How many woman employees should be employed for this task?

A. 111

B. 117

C. 139

D. 123

13. A group of men decided to do a job in 4 days. But since 20 men dropped out every day, the job completed at the end of the 7th day. How many men were there at the beginning?

A. 240

D. 150

14. C is twice efficient as A, B takes thrice as many days as C. A takes 12 days to finish the work alone. If they work in pairs (i.e., AB, BC, CA) starting with AB on the first day then BC on the second day and AC on the third and so on, then how many days are required to finish the work?

A. 6 (1/5)

B. 4.5

C. 8

D. 5 (1/9)

15. The work done by a man, a woman and a child is in the ratio of 3 : 2 : 1. There are 20 men, 30 women and 36 children in a factory. Their weekly wages amount to Rs 780, which is divided in the ratio of work done by the men, women and children. What will be the wages of 15 men, 21 women and 30 children for 2 weeks?

A. Rs 1170

B. Rs 292.5

C. Rs 585

D. Rs 900

16. P can complete a work in 12 days working 8 hours a day. Q can complete the same work in 8 days working 10 hours a day. If both p and Q work together, working 8 hours a day, in how many days can they complete the work?

A. 60/11

B. 61/11

C. 71/11

D. 72/11

Directions (17-21): Study the following table carefully to answer the given questions

Classification of 50 Students based on the marks obtained by them in Quants & Reasoning in Prelim exam

| | | | Ма | rk Out of 10 | 0 |
|--------------------|-----------------|-----------------|-----------------|-----------------|----------------|
| Subject | 80 and above | 70 and above | 50 and above | 30 and above | 0 and above |
| Quants | 23 | 28 | 37 | 43 | 50 |
| Reasoning | 12 | 32 | 35 | 39 | 50 |
| Average(Aggregate) | 15 | 22 | 38 | 40 | 50 |

17. The number of students scoring less than 30% marks in aggregate is?

C. 20

D. 10

18. If it is known that at least 20 students were eligible for main exam, then the minimum qualifying marks in Reasoning for eligibility to attend the main exam(Top 20 students only can attend main exam)?

B. above 80

C. 70-60

D. 50-70

19. The percentage of number of students scored 70% marks in Quants is what percentage of number of students scored 30% marks in aggregate?

A. 60%

B. 70%

C. 50%

D. 75%

20. If at least 50% marks in aggregate are required for interview, how many students will be eligible to attend interview?

A. 50

B. 40

C. 20

| 21 What is the same | | | | |
|--|--|------------------------|--|-----|
| marks in annual to the differen | it between the number of | of students passed wi | th 80 as cut-off marks in Quants and 30 as cut-of | 1 |
| Reasoning | ether to no of students p | bassed with 70 as cut- | off marks in aggregate and 50 as cut off in | |
| | | | 100 | |
| A. 11 | B. 5 | C. 8 | D. 6 | |
| Online tests for IT Com | the following information | on carefully to answer | the given questions | |
| Tests for II Con | ipany interview' is writte | n as 154 260 120 101 | 308' | _ |
| Questions for the Inter | view' is written as 154.9 | 0 120 213' | | 7 |
| Prepare for the Intervi | ew test' is written as ' 15 | 6 54 260 '90 120' | | |
| interview for IT compa | iny' is written as ' 120 30 | 8 54 210' | | 4 |
| 22. What is the code fo | r 'test' in the given code | language? | | |
| A. 120 | B. 260 | C. 101 | D. 308 | |
| 23. 308 is the code for | which of the following? | | | |
| A. Interview | B. IT Company | C. Online | D. for | |
| 24. What is the code fo | r 'prepare questions for | test'? | | |
| A. 120 54 101 54 | B. 260 308 54 120 | C. 90 120 101 213 | D. 156 213 54 260 | 50 |
| 25, If 3rd December, 19 | 990 is Sunday, What day | is 3rd January 1991? | 0, 150 215 54 200 | |
| A. Sunday | B. Monday | C. Tuesday | D. Wednesday | |
| 26. What was the day of | of the week on 28th May | | o. Wednesday | |
| A. Sunday | B. Friday | C. Wednesday | D. Tuesday | |
| 27. On 8th Dec, 2007 S | aturday falls. What day o | | | |
| A. Saturday | B. Friday | C. Monday | D. Tuesday | |
| 28. A clock is set right a | t 8 a.m. The clock gains | | 's will be the true time when the clock indicates | , |
| p.m. on the following d | ay? | | o which the time when the clock indicates | 1 |
| A. 48 min. past 12. | B. 46 min. past 12. | C. 45 min. past 12. | D. 47 min. past 12. | |
| 29. Find the angle betw | | | clock when the time is 3.25 | ÿ |
| A. 47.5 degrees | B. 57.5 degrees | C. 45.5 degrees | D. 55.5 degrees | • |
| 30. An accurate clock s | hows 8 o'clock in the mo | 4.0 | nay degrees will the hour hand rotate when the | |
| clock shows 2 o'clock in | | | and the state of t | |
| A. 360 | B. 180 | C. 90 | D. 60 | |
| 31. Though the raids or | Spanish ships and town | s were on a small sca | le, Sir Francis Drake achieved | |
| success, adding gold an | | | | |
| A. Insignificant | B. Temporary | C. Significant | D. Ineffective | |
| Choose a synonym for | the word in BOLD in the | following sentences | | 1 |
| | your spending, you'll be | - | | |
| A. Reduce | B. Follow | C. Behind | D. Buy | |
| | v expectations for you, s | | ollege, become rich and famous, and be elected | 35 |
| | States before you turn ! | | and the created | 43 |
| A. High | B. Shaky | C. Small | D. Lowly | |
| | | | s towards the petty issues? | |
| A. Improved | B. Healthy | C. Focus | D. Нарру | |
| | | | ntains an error. Mark option D if there is no erro | 15 |
| 35. A. A big bouquet of | | | ere given to the chief guest, who | ,,, |
| C. arrived at the ver | | | pertor. | * |
| 36. A. Why do we insis | | | cessories made from leather | r |
| C when we know t | hat animals suffer becau | | perror. | |
| The state of the s | The state of the s | | 7,100 | |



A. works

Director CDC .

60V



Semester: 5 NAME:..... Subject: PDP V Subject Code: CDS305B Roll No:..... Time: 60 Mins Max Marks: 50 Branch: FAA/EFB/HCM/BA/GOM Instructions: All questions are compulsory. Each question carries multiple options. No negative marking. Answers are to be filled in the answer table only. Answers written outside the answer table won't be considered. Answer Table: 1 2 3 10 5 8 6 11 12 13 14 19 20 15 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 33 34 40 35 36 37 38 39 41 42 43 44 45 50 46 47 48 49 Choose the correct option in the following In a group discussion, one must communicate with A. Hostility B. Ignorance C. Knowledge D. Arrogance 2. Which of these must be avoided in a group discussion A. Speaking Facts B. Asking questions C. Speaking with clarity D. Deviating from the topic 3. In a group discussion a person who begins the discussion is called B. Starter C. Beginner D. Moderator 4. Which of the following is more interactive and solution oriented A. Seminar B. Chalk board instruction C. Lecture D. Group Discussion 5. The best way to apply for a job is to submit a resume that is A. Suitable for any job B. Self-recommending C. Specifically written for a particular job D. Personal information only The application letter and the resume perform. A. Two different tasks B. Overlapping tasks C. The same task D. Two opposite tasks 7. The résumé of a fresh graduate is generally A. One page long B. Two pages long C. Half a page D. Three pages long 8. The cover letter is A. A foreword B. A summary of your qualifications and experiences C. A description of your core strengths and suitability for the job D. A statement of your job objective 9. A summary placed at the beginning of the resume acts as a A. synopsis B. Career objective C. Preface D. Letter of recommendation 10. In an interview when you do not know an answer, you should B. Bluff C. Admit that you do not know the answer A. Keep guessing D. Remain qui Fill up the blanks with appropriate option. completed this chapter. 11. The teacher ___ C. is D. are B. has A. have business partners. 12. Ram and Shyam __ C. are B. has D. had A. have her office by 9 a.m. daily. 13. She B. reaches C. reached D. reaching A. reach also invited to the party. 14. Rahul and his friends C. had B. was D. were A. is

| 15. A bouquet of fle | owers required for th | e event. | | |
|--|---|--|------------------------------|----|
| A. are | B. have | C. has | D. is | |
| 16. Twenty years | the minimum age to f | ill this form. | | |
| A. are | B. is | C. has | D. have | |
| 17. Much | been said in the news repo | | D. was | |
| A. were | B. have | C. has | D. was | |
| 18. Either of the two | o dresses shall | good | D. looked | |
| A. looking | B. look | C. looks | D. Moses | |
| Choose the correct | | -tto a minimum | | |
| | nterview, jewellery should be ke | C. Can't say | D. None of these | |
| A. True | B. False ware of all the following groom | | | |
| | lean or well-maintained. | ing that every | | |
| | and have fresh breath | | | |
| | as the best gesture for good imp | pression | | |
| | should be well maintained. | | | 7 |
| 21. What should not | be included in your self- introd | uction | n all afaba abous | |
| A. Very personal Info | ermation B. Your weakness | C. Your failures | D. All of the above | |
| | en and women should be: | | and an Association | |
| A. Steel-toed for pro- | tection B. Open-toed for can | nfort C. Brightly colour | D. Clean and polished | |
| 23. Time managemen | nt refers to a range of skills, too | ls, and techniques used to | manage time when accomplishi | ng |
| specific tasks, project | | | | |
| A. True | B. False | C. Can't Say | D. None of these | |
| 24 Which word mea | ns- " the time by which someth | ing must be completed"? | | , |
| A. Chore | B. Consequence | C. Goal | D. Deadline | |
| | or making a "to-do" list every da | ıy. | | |
| | 5 11 | elps keep things "in sight, | in mind | |
| A. Is a waste of paper | | one of the above | | |
| C. Takes too long to fi | 11 041 | | | |
| | me productively, you need to ha | C. Boundaries | D. Goals | |
| A. Possibilities | B. Ideas | C. Doundancs | 2. 303.3 | |
| 27. Efficient time mar | nagement includes | | | |
| A. Doing the best task | s first, and the worst tasks last | and the standard of the standa | | |
| B. Having a very struct | tured schedule and not leaving | any room to be nexible | | |
| C. Being flexible | | 27 46 | | r |
| D. Doing the worst tas | ks first while you're alert and n | ot tired | | |
| 28 For a student, time | e management in college would | d mean | | 1 |
| A You have to learn to | o manage your extra time more | efficiently. | | |
| B. You have limited tin | ne in hand | | | |
| 6. You have too many | activities at a time in hand | | | |
| ii - fake aboun are | true | | | |
| D. All of the above me | isely includes limiting the time | you spend on the interne | t, using a cell phone, etc | |
| | B. False | , 1000 posterisme | | |
| A. True | | | | |
| 30. What is NOT include | ed in the body language? | C. Gestures | D. Facial expressions | |
| A Body movements | B. Listening | C. Gestures | D. racial expressions | |
| 31. Body language can | communicate | | D 48 - 44 | |
| Carlings | B. Intentions | C. Emotions | D. All of these | |
| 2. A head positioned for | orward facing someone indicat | es | | |
| t-torest! | B. Superiority C. Disre | espect D. Disinti | erest | |
| 2 What should not be | done at the time of interview | , | | |
| . Reaching late | | B. Misquoting facts | | |
| . Reacting to the control of the con | | D. All of the above | | ¥ |
| . Going unprepared | | | | r |
| | | | | |

| 34. What should want | 2000 | | | |
|--|---|-------------------------------|--------------------------------|----------|
| A. Research the compa | while preparing for an inte | rview? | | |
| C. Practice top interest | ny | B. Learn the company's | vision and mission | |
| 35. Who should be | w questions and answers | | | |
| A. The receptionist | eted in a friendly and respect | tful manner? | | |
| 36. When appropriate | B. The secretary | C. The Interviewer | D . All of the above | |
| A. Be specific | B. The secretary terview questions, it is impor- | rtant to | | r |
| | | | good D. Misquoting fact | ts |
| A. How you answer you | B. Be general give, the employer is lookin | g for | | 1 |
| And Am 29A6 III | em time | C. How you will solve their | problem(s) | |
| B. How you will save th | em money | D. All of the state | | 4 |
| A Analysis | ing is not a step in the prepa | ration of an interview? | | |
| Leng rouisell | B. Identifying your chil | lls C. Being negative | D. Revising your subject | |
| 39. At the start of an in | terview, you should | | | 1 |
| A. Try to find common i | nterests. | | | |
| B. Look around the office | e for things. | | | |
| C. Greet the interviewe | r with a smile. | | | |
| D. All of the above | | | | |
| 40. While attending the | online interview you should | not | | |
| A. Dress casually | | B. Keep your camera on | | |
| C. Keep the microphone | off | D. should be sitting at a | well-lit place and attend | |
| 41. Interviews are conv | ersations with | | | |
| A. Fun | B. Purpose | C. Friendliness | D. Informality | |
| 42. Which of these is no | ot a type of interview? | | | , |
| A. Screening interview | B. Stress interview | C. Music interview | D. Lunch interview | ٧ |
| 43. The best way to dre | ss to impress for the intervie | ew is to | | 1 |
| | rt B. Wear a jogging suit we | | It doesn't matter what you | wear |
| 44. Gesture, posture, ey | e contact are examples of co | ommunication that is | | 10 |
| A. Verbal | B. Non- verbal | C. Aggresive | D. Polite | |
| 45. "You should be auth | entic in an interview" means | to be | | |
| A. False | B. Invalid | C. surprising | D. Realistic | 1 |
| 46. Before your interview | w in a company you should | | | |
| · · · · | B. Get worked up | C. Research | D. None of the abo | ve |
| 46 Should you answer i | nterview questions in comp | lete sentences or give one wo | ord answer? | |
| . complete centences | B. One word answers | C. Both | D. Neither | |
| A7 Which of the following | ng is not the part of a resum | e ? | | |
| | n Employment HISTORY | C .Combact milation | on D. Education | |
| - which of the following | ng is the safest email address | s style to use on your resume | :7 | |
| A. lovin _ladies 123@er | nailprovider.com | | | |
| www.comailnrovid | er.com | | | 4 |
| B. j_smith@emanp.oco C. party all the time@en | nailprovider.com | | | , |
| C. party all the three | | | | |
| D. none of these | ng methods is the best to kno | ow more about the person a | nd his/ her fitment for a role | <u> </u> |
| 49. Which of the follows | B. Interview | C. Case Study | D. Survey Method | 1 |
| A. Observation | B. Interview ecide the colour of the belt (| for men)? | | f. |
| 50. What is the rule to ut | 10 | | V | |
| A, always wear black B, the belt should match | the colour of the shoe | | | |
| 3, the belt should match | the colour of trousers | | (1. De) | 10 |
| the belt should match the belt should match | the colour of the tie | | 110 | 0 |
| the belt should mater | | | | |

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| Subject Max Mi | Semester: 5 Subject Code: CDO303 Max Marks: 50 | | | Subject: Career Skills-II Time 60 Mins Date 17 2 2 2 2 4 | | NAME Roll No Branch: Phy/Chem/Maths | | | |
|---|--|---|---------------------------------|--|---------------------|-------------------------------------|---------------------------|---------------------------|-------------------------|
| nswers | | | | Each question yed. Answers you't be consi | | | | | ergeiten - |
| 1 | 2 | 3 | 4 | 5 | 6 | - | | | |
| 11 | 12 | 13 | 14 | 15 | 16 | 7 | 8 | 9 | 10 |
| | 22 | 23 | 24 | 25 | 26 | 17 | 18 | 19 | 20 |
| _ | | | | | 4.0 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | | | | 30 |
| 31 | | 33 43 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 31 | 32 | | 34 44 | 35 45 | 36 46 | 37 47 | | | - |
| A. 8 5 | 32 42 us travels 32 e travelled b | 20 km in 8 hr by them in on B. 5 : 8 | 44 s and a train te hour? | 45 travels 640 l | 46 kms in 10 hos | 47 | 38 48 erm speed, ti | 39 49 hen what is t | 40 50 he ratio of |
| 1. If a b distance | 32 42 us travels 32 e travelled b | 20 km in 8 hr by them in on B. 5 : 8 | 44 s and a train te hour? | 45 travels 640 l | 46 kms in 10 hos | 47 | 38 48 erm speed, ti | 39 49 hen what is t | 40 50 he ratio of |
| 1. If a b distance A. 8 - 5 2. Moh | 32 42 us travels 32 e travelled b | 20 km in 8 hr by them in on B. 5 : 8 his factory 3 r | s and a train te hour? | 45 n travels 640 l | 46 kms in 10 hou | D. 1 : 2 | 38 48 erm speed, th | 39 49 hen what is t | 40 50 he ratio of |

The correct time for the train to complete its journey is? B. 10 min. C. 19 min. D. 21 min. 4. A person crosses a 1200 m long street in 10 minutes. What is his speed in kmph?

A 3.6 kmph B 7.2 kmph C. 8.4 kmph D. 10 kmph

5. A train covers a distance in 50 minutes, if it runs at a speed of 48 kmph on an average. The speed at which the train must run to reduce the time of journey to 40 mints is?

A. 70 kmph 8.60 kmph C. 55 kmph D. 65 kmph

6. A car travels the first one-third of a certain distance with a speed of 10 km/hr, the next one-third distance with a speed of 20 km/hr and the last one-third distance with a speed of 60 km/hr. The average speed of the car for the whole journey is?

A 18 kmph B. 24 kmph C. 30 kmph D. 36 kmph

7. A train travels at a certain average speed for a distance of 63 km and then travels a distance of 72 km at an average speed of 6 kmph more than its original speed. If it takes 3 hours to complete the total journey, what is the original speed of the train in kmph?

A. 24 kmph 8. 33 kmph C. 42 kmph D. 66 kmph

B. If a flight of 600 km an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 kmph and the time of flight increased by 30 minutes. The duration of the flight is?

8. 2 hr A. 1 hr C. 3 for D. 4 hr

| 9. A car covers four rue | | | |
|---|--|-----------------------------|---|
| speed over this distance | cessive 6 km stretches | at 20 km/hr, 40 km/hr, 6 | iO km/hr and 80 km/hr respectively. Its average |
| A. 20 kmph | C.131 | | |
| | B. 30 kmph | C. 35.5 kmph | D. 40 kmph |
| then N and O can con | nplete the work in 18, 3 | 6 and 54 days respectiv | ely. M started the work and worked for 8 days, |
| For how many depend his | m and they all worked t | ogether for some days. | M left the job one day before completion of work. |
| For how many days the A. 4 | | | |
| | B. 5 | C. 3 | D. 6 |
| alana and Bipin toge | ther can do a piece of v | vork in 8 days. If Paul alc | one can do the same work in 12 days, then Biping |
| alone can do the same | | | |
| A. 20 days | B. 16 days | C. 24 days | D. 28 days |
| | | O days and another pers | on Bikas takes 15 days. If they work together, in |
| how much time will the | | | |
| A. 2 days | B. 6 days | C. 4 days | D. 8 days |
| | | | assignment in 4 days. If Aman can do the |
| assignment alone in 12 | | | |
| A. 2 days | B. 6 days | C. 4 days | D. 8 days |
| | | lo it in 5 days. With the a | assistance of R they completed the work in 2 days. |
| Find in how many days | can R alone do it? | | 2 5 . |
| A. 10 days | B. 20 days | C. 5 days | D. 4 days |
| After working for 6 | days, Ashok finds that | only 1/3" of the work ha | is been done. He employs Ravi who is 60% as |
| efficient as Ashok. How | v many days more woul | d Ravi take to complete | the work? |
| A. 19 days | B. 10 days | C. 20 days | D. 12 days |
| 16. Three taps A, B and | C can fill a tank in 12, | 15 and 20 hours respect | ively. If A is open all the time and B and C are open |
| for one hour each alter | rnately, the tank will be | full in: | D 7 hours |
| | D & house | C 15/2 hours | D. 7 hours |
| 17. A large tanker can | be filled by two pipes A | and B in 60 minutes and | 40 minutes respectively. How many minutes will |
| it take to fill the tanker | from empty state if B i | s used for half the time; | A and B fill it together for the other flam |
| | | | |
| 18. Three pipes A, B an | id C can fill a tank in 6 h | ours. After working at it | together for 2 hours, C is closed and A and B can |
| 18. Three pipes A, B an fill the remaining part | in 7 hours. The number | of Hours taken by c alo. | D. 16 |
| A. 10 | B. 12 | C. 14 | b. 18 |
| 19 Two pipes can fill a | tank in 25 and 30 minu | ites respectively and a w | vaste pipe can empty 3 gallons per minute. All the city of the tank is: |
| three pipes working to | gether can fill the tank | III 15 thintstees | D 150 mallons |
| A 250 gallons | B. 450 gallons | C. 120 gallons | pectively. Both the pipes are opened together but of fill the tank? |
| 20 Two pipes P and Q | can fill a tank in 15 min | utes and 40 minutes res | fill the tank? |
| 20. Two pipes P and Q after 4 minutes, pipe P | is turned on. What is t | 116 16111 | D. 20 min 10 sec |
| A 10 min 10 sec | B. 25 min 20 sec | C. 29 min 20 sec | NAME written in that code? |
| A. 10 in a certain langu | iage, COUNSEL is coded | as BITIRAK, how is GUIL | D. FOHYZIBB |
| 21. II III a CERTAIN | B. OFHBJZYB | C. BJZYBHFO | D. FOHYZIBB ritten as 323039, how is TWELVE written in that |
| A. OHTEZOO | , TWENTY is written as 8 | 363985 and ELEVEN IS W | Atten as 323635, too |
| 22. If in a certain | | 22 | D. 320368 |
| code? | B. 368302 | C. 863203 | eases 'good red rose' and '341' means 'rose and |
| A. 203803 | nguage, '851' means 'go | ood sweet fruit', '783' ff | D. 320368 neans 'good red rose' and '341' means 'rose and ? |
| 23. In a certain code la fruit'. Which of the foll | owing digits stands for | 'sweet' in that language | , D. S |
| | B. 3 | C. 4 | 0.5 |
| A. 2 | Chicago de la companya del la companya de la compan | | |

| 24. In a certain code | language, 'col tip mo | t' means 'singing is apprec | iable', 'mot baj min' means 'dancin | g is good' and 'tip |
|-------------------------|--------------------------|------------------------------|---------------------------------------|---------------------|
| | | 75 - 75 | neans 'good' in that code language | |
| A. Mot | B. Baj | C. Min | D. Nop | |
| 25. If DELHI is coded | as CCIDD, how would | you encode BOMBAY? | | |
| A. AIMTVT | | C. MJXVSU | D. WXYZAX | |
| 26. If in a certain las | nguage, SHIFT is coded | as RFFBO, which word wo | ould be coded as LKUMB? | |
| A. MMXQG | | C. KIVLA | D. MIVLC | 2. |
| 27. In a certain code | | | as 8192. How is PILLER written in t | hat code? |
| | | | D. 338816 | |
| 28. If PALAM could | be given the code nun | nber 43, what code number | r can be given to SANTACRUZ? | |
| A. 75 | _ | C. 120 | D. 123 | |
| 29. If 'gnr tag zog g | | | ttee', 'hyto gor emf' stands for 'sun | nmer Olympic |
| | | | would be the code for 'summer'? | |
| A. hyto | | C. emf | D. zog | |
| | T = 48, then BAT will b | e equal to | | |
| A. 39 | B. 41 | C. 44 | D. 46 | |
| | | n of Verb that is in agreen | ent with the subject- | 4 |
| | her office by 9 a.m. | | • | , |
| | | C. reached | D. reaching | |
| | | | relevant to be inc | cluded in the |
| study. | | | | |
| 4 | B. had. has | C. has, have | D. is , is | |
| | | | d each of the members | most welcome |
| for that. | | | | |
| | B. write, is | C. writes, is | D. write, were | -1 |
| | | coming today. | | |
| A. are | B. had been | | D. have been | |
| | | passed the exam. | | |
| A. have | | C. had been | D. would have | |
| | | wer from the options give | n below- | |
| | ou should be listening t | | | |
| A. you talk | B. you are talking | | D. are you talking | |
| A. You take | | k them. How can someone | | |
| | | ps C. always bumping | D. always bump | |
| | | have just finished the assig | | |
| A. have been | B. had been | | D. am | γ |
| | nth, we shall | | | |
| A. has completed | B. completing | C. completed | D. have completed | |
| | hoose the correct sent | | | |
| | up, he has afready ea | | | |
| | he had already eaten | | | |
| | en up, he had already | | | |
| C. When I had work | en up, he has already e | aten breakfast | | |
| D. When I had work | en up, ne mas an eauly e | west at each make | | |
| | | | | |

| 41. A Monika likes playir | ng Ludo, carrom | s, and play ches | 255. |
|--|-------------------|-------------------------|---|
| B. Monika likes playing t | | | |
| C. Monika likes playing t | | | |
| D. Monika likes to play I | Ludo, carroms, a | and playing ches | 255. |
| Direction (42-45) Choos | e the correct ar | nswer from the | e options given below- |
| 42. The art studio is spa | cious, pleasantl | y cluttered, | D and well-lit |
| A. and has good lighting | B. and | being well-lit | C. and is lit well D. and West to |
| 43. For lunch I would like | (e | · | B. baked potatoes and to fry eggs. |
| A. fried eggs and to bak | e potatoes. | | D. None of the above. |
| C. to fry eggs and bake | potatoes. | | modifier close to the word it modifies. |
| 44. A way to avoid mist | placed modifiers | is to place the | modifier close to the word it modifies. D. None of these |
| A. True | B. False | C. Can't say | ich was quite original, was just a cardboard box. |
| 45. Which word is bein | g modified? H | C. cardboard | ich was quite original, was just a cardboard box. D. original |
| A. costume | B. large | the word which | th best expresses the meaning of the given word. |
| In the following the qu | estions choose | the word | |
| 46. CORPULENT- | | C. Emaciated | |
| A. Lean | B. Gaunt | | |
| 47. Brief- | B. Small | C. Little | D. Short |
| A. Limited | | | a Observant |
| 48- Alert- | n Watchful | C. Intelligent | t D. Observant |
| A. Energetic | consists of a wo | ord or a phrase v | which is underlined. |
| Each sentence below | hich is the OPPO | OSITE in the me | t D. Observant which is underlined. It is followed by four words or phrases. Select eaning of the word or phrase underlined. D. bad |
| the word or phrase way. The inhabitants of | the island were | barbarians. | n had |
| 49. The inhabitants of | B. cruel | C. uncivilized | · a |
| A. civilized 50. The members thou | ight that the tas | sk was <u>feasible.</u> | D. impracticable |
| 50. The members the | B. impossible | C. difficult | · · |
| A. unfeasible. | | | |
| | | | |

Py. Director CDC



MANAV RACHNA UNIVERSITY Declared on Strate Private University vide Harymon Act 76 of 7014

| Semester: 5 Subject Code: CDO301 Max Marks: 50 Scanon - II | | | Subject: PCE-III Time: 60 Mins | | NAME: Roll No: Branch: CST/ME/ECE | | | | |
|--|--------------------|----------------------------|--------------------------------|--|---|---|---------------|----------------|-----------------|
| | | | | | | | | | |
| | | 1 | | | | | | | |
| inswer: | No negative | marking, Ca | lculator is n | Each question of allowed. A constant of the co | nswers are | | | er table only | <i>.</i> |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| | | | 1 11 | | - 10 | 1.0 | | | |
| the fas | ter train? | | | | | | | econas. Fina | the speed of |
| A. 38 m | n/s | B. 46 m | | C. 42 m/ | | | of these | | |
| | | | | cross a man | | | | nds and 34 s | econds |
| | | | n other in 46 | seconds. The | e ratio of th | | | | |
| A. 1:3 | | B. 3:2 | | C. 3:4 | 70 | | of these | | |
| 4. A bo | at running u | pstream cov | ers a distant | river current | Go kmohl? | s and while i | running dow | instream, it t | overs the sar |
| | | B. 2.2 k | | C. 2 kmp | h | D. Can't | sav | | |
| A. 2.5 k | empn aper downt | | | | | | | ream in 5 h. | If the speed o |
| 5. Kam | eam is 2 km/ | h, find the d | istance betw | een the two | ports? | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| A 50 k | m | B. 60 km | n | C. 70 km | | D. 80 km | | | |
| E Two | boats, trave | lling at 7 km | h and 8 km | h, head direc | tly towards | each other. | They begin | at a distance | of 20 km fro |
| each of | ther. How fa | r apart are th | iey (in km) d | ne minute be | efore they c | ollide? | | | |
| 4 1/12 | 1 km | B. 1/6 k | m | C. 1/4 km | ri | D. 1/3 k | m | | |
| 7 At hi | e usual rowi | ng rate, Moh | it can travel | 12 miles dov | vnstream in | a certain riv | er in six hou | irs less than | it takes him to |
| · · · · · · · · · · | he same dis | tance upstre. | am. But if he | could double | e his usual r | owing rate f | or this 24 m | ile round trip | o, the |
| downst | tream 12 mil | es would the | n take only | one hour less | than the u | pstream 12 | miles. What | is the speed | of the curret |
| in mile: | s per hour? | | | 6.649 | | 0.00 | | | |
| A. 7/3 | | B. 4/3 | ** 1 / 14 | C. 5/3 | marilaria inilita | D. 8/3 | to the said | | |
| 8. A bo | at's speed in | still water is | 15 km/n. W | on to cours t | be same die | a speed of t | troom fire | the distant | cover a certa |
| distanc | e upstream | is 2 h more ti B. 31 kn | nan ume tak | en to cover t C. 31.5 k | ne same on m | D. 32 km | stream. Fint | rine distant | er. |
| A. 30.5 | km | D. 31 Kil | take 30 days | B and C take | e 24 days a | nd C and A t | ako 20 days | They all star | rt together ar |
| 9, To co | omplete a w | ork, A and B | d Clarus H | ow many day | e will A take | n to finish th | n ramainina | work? | t together at |
| work fo | or 5 days afte | er which is an | id C leave. H | ow many day C. 33 | a will wrak | D 10 | e remaining | WUIKI | |
| A. 11 | | B. 28 | | C. 33 | | D. 18 | | | , |

10. A can do a job in 20 days, B in 30 days and C in 60 days. If A is helped by B and C every 3rd day. How long will it take for them to complete the job?

A. 12 days

B. 4 days

C. 15 days

D. 18 days

11. If a soldier fires 7 shots from a gun in 12 minutes then find the total number of shots fired by the man in 3/2 hrs.

A. 45

B. 44

C. 46

12. A woman fills a bucket in 6 minutes. 1845 buckets have to be filled from 8 am. to 9:30 am. How many woman employees should be employed for this task?

A. 111

B. 117

C. 139

D. 123

13. A group of men decided to do a job in 4 days. But since 20 men dropped out every day, the job completed at the end of the 7th day. How many men were there at the beginning?

A. 240

D. 150

14. C is twice efficient as A, B takes thrice as many days as C. A takes 12 days to finish the work alone. If they work in pairs (i.e., AB, BC, CA) starting with AB on the first day then BC on the second day and AC on the third and so on, then how many days are required to finish the work?

A. 6 (1/5)

B. 4.5

C. 8

D. 5 (1/9)

15. The work done by a man, a woman and a child is in the ratio of 3 : 2 : 1. There are 20 men, 30 women and 36 children in a factory. Their weekly wages amount to Rs 780, which is divided in the ratio of work done by the men, women and children. What will be the wages of 15 men, 21 women and 30 children for 2 weeks?

A. Rs 1170

B. Rs 292.5

C. Rs 585

D. Rs 900

16. P can complete a work in 12 days working 8 hours a day. Q can complete the same work in 8 days working 10 hours a day. If both p and Q work together, working 8 hours a day, in how many days can they complete the work?

A. 60/11

B. 61/11

C. 71/11

D. 72/11

Directions (17-21): Study the following table carefully to answer the given questions

Classification of 50 Students based on the marks obtained by them in Quants & Reasoning in Prelim exam

| | Mark Out of 100 | | | | | |
|-------------------|-----------------|-----------------|-----------------|-----------------|----------------|--|
| Subject | 80 and above | 70 and above | 50 and above | 30 and above | 0 and above | |
| Quants | 23 | 28 | 37 | 43 | 50 | |
| Reasoning | 12 | 32 | 35 | 39 | 50 | |
| verage(Aggregate) | 15 | 22 | 38 | 40 | 50 | |

17. The number of students scoring less than 30% marks in aggregate is?

C. 20

D. 10

18. If it is known that at least 20 students were eligible for main exam, then the minimum qualifying marks in Reasoning for eligibility to attend the main exam(Top 20 students only can attend main exam)?

B. above 80

C. 70-60

D. 50-70

19. The percentage of number of students scored 70% marks in Quants is what percentage of number of students scored 30% marks in aggregate?

A. 60%

B. 70%

C. 50%

D. 75%

20. If at least 50% marks in aggregate are required for interview, how many students will be eligible to attend interview?

A. 50

B. 40

C. 20

| 21 What is the size | | | | |
|----------------------------|-----------------------------|----------------------|---|------------|
| marks in annual track | it between the number of | of students passed w | rith 80 as cut-off marks in Quants and 30 as cut-off | 1 |
| Reasoning | ether to no of students p | bassed with 70 as cu | rith 80 as cut-off marks in Quants and 30 as cut-off t-off marks in aggregate and 50 as cut off in | |
| | | | | |
| A. 11 | B. 5 | C. 8 | D. 6 | |
| Online tests for IT Com | the following information | on carefully to answ | er the given questions | |
| TESTS TOT IT COM | ipany interview' is writte | n as 154 260 120 10 | 1 308' | |
| Questions for the Inter | view' is written as 154.9 | 0 120 213' | | ŀ |
| Prepare for the Intervi | ew test' is written as ' 15 | 6 54 260 90 120 | | |
| interview for IT compa | iny' is written as ' 120 30 | 8 54 210' | | , |
| 22. What is the code fo | r 'test' in the given code | language? | | |
| A. 120 | B. 260 | C. 101 | D. 308 | |
| 23. 308 is the code for | which of the following? | | 21 330 | |
| A. Interview | B. IT Company | C. Online | D. for | |
| 24. What is the code fo | r 'prepare questions for | test'? | | |
| A. 120 54 101 54 | B. 260 308 54 120 | C. 90 120 101 213 | D. 156 213 54 260 | |
| 25, If 3rd December, 19 | 990 is Sunday, What day | is 3rd January 1991 |) | |
| A. Sunday | B. Monday | C. Tuesday | D. Wednesday | |
| 26. What was the day of | of the week on 28th May | | J. Wednesday | |
| A. Sunday | B. Friday | C. Wednesday | D. Tuesday | |
| 27. On 8th Dec, 2007 S | aturday falls. What day o | | | |
| A. Saturday | B. Friday | C. Monday | D. Tuesday | |
| 28. A clock is set right a | t 8 a.m. The clock gains | | urs will be the true time when the clock indicates : | |
| p.m. on the following d | ay? | 2 110 | and the time time when the clock indicates : | ı |
| A. 48 min. past 12. | B. 46 min. past 12. | C. 45 min. past 12. | D. 47 min. past 12. | |
| 29. Find the angle betw | | | clock when the time is 3.25 | Ì |
| A. 47.5 degrees | B. 57.5 degrees | C. 45.5 degrees | D. 55.5 degrees | |
| 30. An accurate clock sl | | | may degrees will the hour hand rotate when the | |
| clock shows 2 o'clock in | | g | and totale when the | |
| A. 360 | B. 180 | C. 90 | D. 60 | |
| 31. Though the raids or | Spanish ships and town | s were on a small so | ale, Sir Francis Drake achieved | |
| success, adding gold an | | | | |
| A. Insignificant | B. Temporary | C. Significant | D. Ineffective | |
| Choose a synonym for | | | | ì |
| | your spending, you'll be | - | | |
| A. Reduce | B. Follow | C. Behind | D. Buy | |
| | | | college, become rich and famous, and be elected a | |
| President of the United | | | tonege, second tren and famous, and be elected a | 13 |
| A. High | B. Shaky | C. Small | D. Lowly | |
| | | | us towards the petty issues? | |
| | B. Healthy | C. Focus | D. Happy | |
| A. Improved | | | ontains an error. Mark option D if there is no erro | |
| 35. A. A big bouquet of | | | | <i>i</i> . |
| C. arrived at the ver | | | were given to the chief guest, who | |
| | | | | 1 |
| 36. A. Why do we insis | hat animals suffer becau | | accessories made from leather | |
| C. when we know to | not outlines surfer Decau | se or this? D. | No error. | |



A. works

Director CDC .

60V



Semester: 5 NAME:..... Subject: PDP V Subject Code: CDS305B Roll No:..... Time: 60 Mins Max Marks: 50 Branch: FAA/EFB/HCM/BA/GOM Instructions: All questions are compulsory. Each question carries multiple options. No negative marking. Answers are to be filled in the answer table only. Answers written outside the answer table won't be considered. Answer Table: 1 2 3 10 5 8 6 11 12 13 14 19 20 15 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 33 34 40 35 36 37 38 39 41 42 43 44 45 50 46 47 48 49 Choose the correct option in the following In a group discussion, one must communicate with A. Hostility B. Ignorance C. Knowledge D. Arrogance 2. Which of these must be avoided in a group discussion A. Speaking Facts B. Asking questions C. Speaking with clarity D. Deviating from the topic 3. In a group discussion a person who begins the discussion is called B. Starter C. Beginner D. Moderator 4. Which of the following is more interactive and solution oriented A. Seminar B. Chalk board instruction C. Lecture D. Group Discussion 5. The best way to apply for a job is to submit a resume that is A. Suitable for any job B. Self-recommending C. Specifically written for a particular job D. Personal information only The application letter and the resume perform. A. Two different tasks B. Overlapping tasks C. The same task D. Two opposite tasks 7. The résumé of a fresh graduate is generally A. One page long B. Two pages long C. Half a page D. Three pages long 8. The cover letter is A. A foreword B. A summary of your qualifications and experiences C. A description of your core strengths and suitability for the job D. A statement of your job objective 9. A summary placed at the beginning of the resume acts as a A. synopsis B. Career objective C. Preface D. Letter of recommendation 10. In an interview when you do not know an answer, you should B. Bluff C. Admit that you do not know the answer A. Keep guessing D. Remain qui Fill up the blanks with appropriate option. completed this chapter. 11. The teacher ___ C. is D. are B. has A. have business partners. 12. Ram and Shyam __ C. are B. has D. had A. have her office by 9 a.m. daily. 13. She B. reaches C. reached D. reaching A. reach also invited to the party. 14. Rahul and his friends C. had B. was D. were A. is

| 15. A bouquet of fle | owers required for th | e event. | | |
|--|---|--|------------------------------|----|
| A. are | B. have | C. has | D. is | |
| 16. Twenty years | the minimum age to f | ill this form. | | |
| A. are | B. is | C. has | D. have | |
| 17. Much | been said in the news repo | | D. was | |
| A. were | B. have | C. has | D. was | |
| 18. Either of the two | o dresses shall | good | D. looked | |
| A. looking | B. look | C. looks | D. Moses | |
| Choose the correct | | -tto a minimum | | |
| | nterview, jewellery should be ke | C. Can't say | D. None of these | |
| A. True | B. False ware of all the following groom | | | |
| | lean or well-maintained. | ing that every | | |
| | and have fresh breath | | | |
| | as the best gesture for good imp | pression | | |
| | should be well maintained. | | | 7 |
| 21. What should not | be included in your self- introd | uction | n all afaba abous | |
| A. Very personal Info | ermation B. Your weakness | C. Your failures | D. All of the above | |
| | en and women should be: | | and an all and and | |
| A. Steel-toed for pro- | tection B. Open-toed for can | nfort C. Brightly colour | D. Clean and polished | |
| 23. Time managemen | nt refers to a range of skills, too | ls, and techniques used to | manage time when accomplishi | ng |
| specific tasks, project | | | | |
| A. True | B. False | C. Can't Say | D. None of these | |
| 24 Which word mea | ns- " the time by which someth | ing must be completed"? | | , |
| A. Chore | B. Consequence | C. Goal | D. Deadline | |
| | or making a "to-do" list every da | ıy. | | |
| | 5 11 | elps keep things "in sight, | in mind | |
| A. Is a waste of paper | | one of the above | | |
| C. Takes too long to fi | 11 041 | | | |
| | me productively, you need to ha | C. Boundaries | D. Goals | |
| A. Possibilities | B. Ideas | C. Doundancs | 2. 303.3 | |
| 27. Efficient time mar | nagement includes | | | |
| A. Doing the best task | s first, and the worst tasks last | and the standard of the standa | | |
| B. Having a very struct | tured schedule and not leaving | any room to be nexible | | |
| C. Being flexible | | 27 46 | | r |
| D. Doing the worst tas | ks first while you're alert and n | ot tired | | |
| 28 For a student, time | e management in college would | d mean | | 1 |
| A You have to learn to | o manage your extra time more | efficiently. | | |
| B. You have limited tin | ne in hand | | | |
| 6. You have too many | activities at a time in hand | | | |
| ii - fake aboun are | true | | | |
| D. All of the above me | isely includes limiting the time | you spend on the interne | t, using a cell phone, etc | |
| | B. False | , 1000 posterisme | | |
| A. True | | | | |
| 30. What is NOT include | ed in the body language? | C. Gestures | D. Facial expressions | |
| A Body movements | B. Listening | C. Gestures | D. racial expressions | |
| 31. Body language can | communicate | | D 48 - 44 | |
| Carlings | B. Intentions | C. Emotions | D. All of these | |
| 2. A head positioned for | orward facing someone indicat | es | | |
| t-torest! | B. Superiority C. Disre | espect D. Disinti | erest | |
| 2 What should not be | done at the time of interview | , | | |
| . Reaching late | | B. Misquoting facts | | |
| . Reacting to the control of the con | | D. All of the above | | ¥ |
| . Going unprepared | | | | r |
| | | | | |

| 34. What should want | 2000 | | | |
|--|---|-------------------------------|--------------------------------|----------|
| A. Research the compa | while preparing for an inte | rview? | | |
| C. Practice top interest | ny | B. Learn the company's | vision and mission | |
| 35. Who should be | w questions and answers | | | |
| A. The receptionist | eted in a friendly and respect | tful manner? | | |
| 36. When appropriate | B. The secretary | C. The Interviewer | D . All of the above | |
| A. Be specific | B. The secretary terview questions, it is impor- | rtant to | | r |
| | | | good D. Misquoting fact | ts |
| A. How you answer you | B. Be general give, the employer is lookin | g for | | 1 |
| And Am 29A6 III | em time | C. How you will solve their | problem(s) | |
| B. How you will save th | em money | D. All of the state | | 4 |
| A Analysis | ing is not a step in the prepa | ration of an interview? | | |
| Leng rouisell | B. Identifying your chil | lls C. Being negative | D. Revising your subject | |
| 39. At the start of an in | terview, you should | | | 1 |
| A. Try to find common i | nterests. | | | |
| B. Look around the office | e for things. | | | |
| C. Greet the interviewe | r with a smile. | | | |
| D. All of the above | | | | |
| 40. While attending the | online interview you should | not | | |
| A. Dress casually | | B. Keep your camera on | | |
| C. Keep the microphone | off | D. should be sitting at a | well-lit place and attend | |
| 41. Interviews are conv | ersations with | | | |
| A. Fun | B. Purpose | C. Friendliness | D. Informality | |
| 42. Which of these is no | ot a type of interview? | | | , |
| A. Screening interview | B. Stress interview | C. Music interview | D. Lunch interview | ٧ |
| 43. The best way to dre | ss to impress for the intervie | ew is to | | 1 |
| | rt B. Wear a jogging suit we | | It doesn't matter what you | wear |
| 44. Gesture, posture, ey | e contact are examples of co | ommunication that is | | 10 |
| A. Verbal | B. Non- verbal | C. Aggresive | D. Polite | |
| 45. "You should be auth | entic in an interview" means | to be | | |
| A. False | B. Invalid | C. surprising | D. Realistic | 1 |
| 46. Before your interview | w in a company you should | | | |
| · · · · | B. Get worked up | C. Research | D. None of the abo | ve |
| 46 Should you answer i | nterview questions in comp | lete sentences or give one wo | ord answer? | |
| . complete centences | B. One word answers | C. Both | D. Neither | |
| A7 Which of the following | ng is not the part of a resum | e ? | | |
| | n Employment HISTORY | C .Combact milation | on D. Education | |
| - which of the following | ng is the safest email address | s style to use on your resume | :7 | |
| A. lovin _ladies 123@er | nailprovider.com | | | |
| www.comailnrovid | er.com | | | 4 |
| B. j_smith@emanp.oco C. party all the time@en | nailprovider.com | | | , |
| C. party all the time C | | | | |
| D. none of these | ng methods is the best to kno | ow more about the person a | nd his/ her fitment for a role | <u> </u> |
| 49. Which of the follows | B. Interview | C. Case Study | D. Survey Method | 1 |
| A. Observation | B. Interview ecide the colour of the belt (| for men)? | | f. |
| 50. What is the rule to ut | 10 | | V | |
| A, always wear black B, the belt should match | the colour of the shoe | | | |
| 3, the belt should match | the colour of trousers | | (1. De) | 10 |
| the belt should match the belt should match | the colour of the tie | | 110 | 0 |
| the belt should mater | | | | |

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| Semester: 5 Subject Code: CDO303 Max Marks: 50 | | | Subject: Career Skills-II Time 60 Mins Date 17 Jul 2024 | | NAME Roll No Branch: Phy/Chem/Maths | | | | |
|--|--|---|---|---|-------------------------------------|----------|---------------------------|---------------------------|-------------------------|
| nswers | | | | Each question yed. Answers you't be consi | | | | | ergeiten - |
| 1 | 2 | 3 | 4 | 5 | 6 | - | | | |
| 11 | 12 | 13 | 14 | 15 | 16 | 7 | 8 | 9 | 10 |
| | 22 | 23 | 24 | 25 | 26 | 17 | 18 | 19 | 20 |
| _ | | | | | 4.0 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | | | | 30 |
| 31 | | 33 43 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 31 | 32 | | 34 44 | 35 45 | 36 46 | 37 47 | | | - |
| A. 8 5 | 32 42 us travels 32 e travelled b | 20 km in 8 hr by them in on B. 5 : 8 | 44 s and a train te hour? | 45 travels 640 l | 46 kms in 10 hos | 47 | 38 48 erm speed, ti | 39 49 hen what is t | 40 50 he ratio of |
| 1. If a b distance | 32 42 us travels 32 e travelled b | 20 km in 8 hr by them in on B. 5 : 8 | 44 s and a train te hour? | 45 travels 640 l | 46 kms in 10 hos | 47 | 38 48 erm speed, ti | 39 49 hen what is t | 40 50 he ratio of |
| 1. If a b distance A. 8 - 5 2. Moh | 32 42 us travels 32 e travelled b | 20 km in 8 hr by them in on B. 5 : 8 his factory 3 r | s and a train te hour? | 45 n travels 640 l | 46 kms in 10 hou | D. 1 : 2 | 38 48 erm speed, th | 39 49 hen what is t | 40 50 he ratio of |

The correct time for the train to complete its journey is? B. 10 min. C. 19 min. D. 21 min. 4. A person crosses a 1200 m long street in 10 minutes. What is his speed in kmph?

A 3.6 kmph B 7.2 kmph C. 8.4 kmph D. 10 kmph

5. A train covers a distance in 50 minutes, if it runs at a speed of 48 kmph on an average. The speed at which the train must run to reduce the time of journey to 40 mints is?

A. 70 kmph 8.60 kmph C. 55 kmph D. 65 kmph

6. A car travels the first one-third of a certain distance with a speed of 10 km/hr, the next one-third distance with a speed of 20 km/hr and the last one-third distance with a speed of 60 km/hr. The average speed of the car for the whole journey is?

A 18 kmph B. 24 kmph C. 30 kmph D. 36 kmph

7. A train travels at a certain average speed for a distance of 63 km and then travels a distance of 72 km at an average speed of 6 kmph more than its original speed. If it takes 3 hours to complete the total journey, what is the original speed of the train in kmph?

A. 24 kmph 8. 33 kmph C. 42 kmph D. 66 kmph

B. If a flight of 600 km an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 kmph and the time of flight increased by 30 minutes. The duration of the flight is?

8. 2 hr A. 1 hr C. 3 for D. 4 hr

| 9. A car covers four rue | | | |
|---|--|-----------------------------|---|
| speed over this distance | cessive 6 km stretches | at 20 km/hr, 40 km/hr, 6 | iO km/hr and 80 km/hr respectively. Its average |
| A. 20 kmph | C 131 | | |
| | B. 30 kmph | C. 35.5 kmph | D. 40 kmph |
| then N and O can con | nplete the work in 18, 3 | 6 and 54 days respectiv | ely. M started the work and worked for 8 days, |
| For how many depend his | m and they all worked t | ogether for some days. | M left the job one day before completion of work. |
| For how many days the A. 4 | | | |
| | B. 5 | C. 3 | D. 6 |
| alana and Bipin toge | ther can do a piece of v | vork in 8 days. If Paul alc | one can do the same work in 12 days, then Biping |
| alone can do the same | | | |
| A. 20 days | B. 16 days | C. 24 days | D. 28 days |
| | | O days and another pers | on Bikas takes 15 days. If they work together, in |
| how much time will the | | | |
| A. 2 days | B. 6 days | C. 4 days | D. 8 days |
| | | | assignment in 4 days. If Aman can do the |
| assignment alone in 12 | | | |
| A. 2 days | B. 6 days | C. 4 days | D. 8 days |
| | | lo it in 5 days. With the a | assistance of R they completed the work in 2 days. |
| Find in how many days | can R alone do it? | | 2 5 . |
| A. 10 days | B. 20 days | C. 5 days | D. 4 days |
| After working for 6 | days, Ashok finds that | only 1/3" of the work ha | is been done. He employs Ravi who is 60% as |
| efficient as Ashok. How | v many days more woul | d Ravi take to complete | the work? |
| A. 19 days | B. 10 days | C. 20 days | D. 12 days |
| 16. Three taps A, B and | C can fill a tank in 12, | 15 and 20 hours respect | ively. If A is open all the time and B and C are open |
| for one hour each alter | rnately, the tank will be | full in: | D 7 hours |
| | D & house | C 15/2 hours | D. 7 hours |
| 17. A large tanker can | be filled by two pipes A | and B in 60 minutes and | 40 minutes respectively. How many minutes will |
| it take to fill the tanker | from empty state if B i | s used for half the time; | A and B fill it together for the other flam |
| | | | |
| 18. Three pipes A, B an | id C can fill a tank in 6 h | ours. After working at it | together for 2 hours, C is closed and A and B can |
| 18. Three pipes A, B an fill the remaining part | in 7 hours. The number | of Hours taken by c alo. | D. 16 |
| A. 10 | B. 12 | C. 14 | b. 18 |
| 19 Two pipes can fill a | tank in 25 and 30 minu | ites respectively and a w | vaste pipe can empty 3 gallons per minute. All the city of the tank is: |
| three pipes working to | gether can fill the tank | III 15 thintstees | D 150 mallons |
| A 250 gallons | B. 450 gallons | C. 120 gallons | pectively. Both the pipes are opened together but of fill the tank? |
| 20 Two pipes P and Q | can fill a tank in 15 min | utes and 40 minutes res | fill the tank? |
| 20. Two pipes P and Q after 4 minutes, pipe P | is turned on. What is t | 116 16111 | D. 20 min 10 sec |
| A 10 min 10 sec | B. 25 min 20 sec | C. 29 min 20 sec | NAME written in that code? |
| A. 10 in a certain langu | iage, COUNSEL is coded | as BITIRAK, how is GUIL | D. FOHYZIBB |
| 21. II III a CERTAIN | B. OFHBJZYB | C. BJZYBHFO | D. FOHYZIBB ritten as 323039, how is TWELVE written in that |
| A. OHTEZOO | , TWENTY is written as 8 | 363985 and ELEVEN IS W | Atten as 323635, too |
| 22. If in a certain | | 22 | D. 320368 |
| code? | B. 368302 | C. 863203 | eases 'good red rose' and '341' means 'rose and |
| A. 203803 | nguage, '851' means 'go | ood sweet fruit', '783' ff | D. 320368 neans 'good red rose' and '341' means 'rose and ? |
| 23. In a certain code la fruit'. Which of the foll | owing digits stands for | 'sweet' in that language | , D. S |
| | B. 3 | C. 4 | 0.5 |
| A. 2 | Chicago de la companya del la companya de la compan | | |

| 24. In a certain code | language, 'col tip mo | t' means 'singing is apprec | iable', 'mot baj min' means 'dancin | g is good' and 'tip |
|-------------------------|--------------------------|------------------------------|---------------------------------------|---------------------|
| | | 75 - 75 | neans 'good' in that code language | |
| A. Mot | B. Baj | C. Min | D. Nop | |
| 25. If DELHI is coded | as CCIDD, how would | you encode BOMBAY? | | |
| A. AIMTVT | | C. MJXVSU | D. WXYZAX | |
| 26. If in a certain las | nguage, SHIFT is coded | as RFFBO, which word wo | ould be coded as LKUMB? | |
| A. MMXQG | | C. KIVLA | D. MIVLC | 2. |
| 27. In a certain code | | | as 8192. How is PILLER written in t | hat code? |
| | | | D. 338816 | |
| 28. If PALAM could | be given the code nun | nber 43, what code number | r can be given to SANTACRUZ? | |
| A. 75 | _ | C. 120 | D. 123 | |
| 29. If 'gnr tag zog g | | | ttee', 'hyto gor emf' stands for 'sun | nmer Olympic |
| | | | would be the code for 'summer'? | |
| A. hyto | | C. emf | D. zog | |
| | T = 48, then BAT will b | e equal to | | |
| A. 39 | B. 41 | C. 44 | D. 46 | |
| | | n of Verb that is in agreen | ent with the subject- | 4 |
| | her office by 9 a.m. | | • | , |
| | | C. reached | D. reaching | |
| | | | relevant to be inc | cluded in the |
| study. | | | | |
| 4 | B. had. has | C. has, have | D. is , is | |
| | | | d each of the members | most welcome |
| for that. | | | | |
| | B. write, is | C. writes, is | D. write, were | -1 |
| | | coming today. | | |
| A. are | B. had been | | D. have been | |
| | | passed the exam. | | |
| A. have | | C. had been | D. would have | |
| | | wer from the options give | n below- | |
| | ou should be listening t | | | |
| A. you talk | B. you are talking | | D. are you talking | |
| A. You take | | k them. How can someone | | |
| | | ps C. always bumping | D. always bump | |
| | | have just finished the assig | | |
| A. have been | B. had been | | D. am | γ |
| | nth, we shall | | | |
| A. has completed | B. completing | C. completed | D. have completed | |
| | hoose the correct sent | | | |
| | up, he has afready ea | | | |
| | he had already eaten | | | |
| | en up, he had already | | | |
| C. When I had work | en up, he has already e | aten breakfast | | |
| D. When I had work | en up, ne mas an eauly e | west at each make | | |
| | | | | |

| 41. A Monika likes playir | ng Ludo, carrom | s, and play ches | 255. |
|--|-------------------|-------------------------|---|
| B. Monika likes playing t | | | |
| C. Monika likes playing t | | | |
| D. Monika likes to play I | Ludo, carroms, a | and playing ches | 255. |
| Direction (42-45) Choos | e the correct ar | nswer from the | e options given below- |
| 42. The art studio is spa | cious, pleasantl | y cluttered, | D and well-lit |
| A. and has good lighting | B. and | being well-lit | C. and is lit well D. and West to |
| 43. For lunch I would like | (e | · | B. baked potatoes and to fry eggs. |
| A. fried eggs and to bak | e potatoes. | | D. None of the above. |
| C. to fry eggs and bake | potatoes. | | modifier close to the word it modifies. |
| 44. A way to avoid mist | placed modifiers | is to place the | modifier close to the word it modifies. D. None of these |
| A. True | B. False | C. Can't say | ich was quite original, was just a cardboard box. |
| 45. Which word is bein | g modified? H | C. cardboard | ich was quite original, was just a cardboard box. D. original |
| A. costume | B. large | the word which | th best expresses the meaning of the given word. |
| In the following the qu | estions choose | the word | |
| 46. CORPULENT- | | C. Emaciated | |
| A. Lean | B. Gaunt | | |
| 47. Brief- | B. Small | C. Little | D. Short |
| A. Limited | | | a Observant |
| 48- Alert- | n Watchful | C. Intelligent | t D. Observant |
| A. Energetic | consists of a wo | ord or a phrase v | which is underlined. |
| Each sentence below | hich is the OPPO | OSITE in the me | t D. Observant which is underlined. It is followed by four words or phrases. Select eaning of the word or phrase underlined. D. bad |
| the word or phrase way. The inhabitants of | the island were | barbarians. | n had |
| 49. The inhabitants of | B. cruel | C. uncivilized | · a |
| A. civilized 50. The members thou | ight that the tas | sk was <u>feasible.</u> | D. impracticable |
| 50. The members the | B. impossible | C. difficult | · · |
| A. unfeasible. | | | |
| | | | |

Py. Director CDC



DEPARTMENT OF COMPUTER ENGINEERING

"T3 Examination, Dec-2022"

| SEMESTER | 7 th | DATE OF EXAM | 19/12/2022 | | | | |
|--|--------------------------------|--------------|---------------|--|--|--|--|
| SUBJECT | VIRTUALIZATION - | SUBJECT CODE | CSH422B-T | | | | |
| NAME | CONTAINERS/CLOUD | | | | | | |
| BRANCH | CSE-DTE | SESSION | Morning | | | | |
| TIME | 9:00am-11:00am | MAX. MARKS | 100 | | | | |
| PROGRAM | B.Tech | CREDITS | 5 | | | | |
| NAME OF | Ms. Anu Priya Sharma | NAME OF | Ms. Anu Priya | | | | |
| FACULTY | | COURSE | Sharma | | | | |
| | | COORDINATOR | t/a | | | | |
| | the following instructions bej | | | | | | |
| Pleuse go through the following instructions before the start of the exam: a. All questions are compulsory. Explain with diagrams wherever required. More | | | | | | | |
| weightage will be given to answers supported with examples and diagrams. Part A | | | | | | | |

a. All questions are compulsory. Explain with diagrams wherever required. More weightage will be given to answers supported with examples and diagrams. Part A carries 10 marks, Part B 10 marks, Part C carries 40 marks and Part D carries 40 marks.

| Q | .NO. | QUESTIONS | MARKS | CO ADDRESSED | S TEAET | PI |
|----------------|--------|--|--------|-----------------|---------|-------|
| PA RT- | (Q1(A) | How are microservices different from Monolytic architecture? | 5 | CO3 | BT4 | 5.3.1 |
| A | QI(B) | How is Kubernetes different from Docker Swarm? | 5 | CO4 | втз | 5.3.1 |
| PA RT- B | Q 2(A) | Explain the docker commands to: 1. Create a new container | 5 | CO4 | BT1 | 5.1.2 |
| | | 2. Pull an image or a repository from a registry | | | | |
| | | 3. Remove one or more images | | | ıl | |
| | | 4. Start one or more stopped containers | 741.11 | | | - |
| | | 5. docker run | | | 1 | |



DEPARTMENT OF Computer Science & Technology "End Term Examination, Dec-2022"

| SEMESTER | 7 th (ECE) | DATE OF EXAM | 19.12.2022 |
|--------------------|--|----------------------------------|--------------------|
| SUBJECT NAME | THEORY OF AUTOMATA AND COMPILER DESIGN | SUBJECT CODE | CSH 425 |
| BRANCH | CST | SESSION | MORNING |
| TIME | 9:00-12:00 | MAX. MARKS | 100 |
| PROGRAM | ВТЕСН | CREDITS | 4 |
| NAME OF FACULTY | DEEPANSHI GUPTA | NAME OF COURSE COORDINATOR | DEEPANSHI GUPTA |

Note: Part A: All questions are compulsory.

| | NO. | QUESTIONS | MARKS | CO ADDRESSED | BLOOM'S LEVEL | PI |
|------------------------|-----|--|-------|-----------------|------------------|-----------|
| P A R T- A | Q1 | What is Automata? How it is useful in real life applications? Give formal definition of a Turing Machine. Construct a Turing machine for accepting palindromes. | 10 | CO1,CO3 | BT1 | 1.1. |
| PA RT -B | Q2 | State about left and right tree derivation? Give formal definition of a Push Down Automata(PDA). Construct PDA for $L = \{ WcW^{R} \mid W =2 \text{ over } \sum = \{a,b\} \}$ | 10 | CO2,CO3 | BT1,BT2 | 2.2. |
| P | Q3 | Test whether the following grammar is LL (1) or not. Construct predictive parsing table for it. S→1AB €, A→1AC 0C, B→0S, C→1 | 10 | CO4 | BT3 | ·2.3. |
| A R T- | Q4 | What is first and follow? Why it is important in compiler Design? Explain LR(0) parsing with suitable example. Explain the analysis synthesis model of | 20 | CO4 | BT1 | 1.1. 3 |
| С | Q5 | compilation. List the factors that affect the design of compiler. Also List major functions done by compiler. | 10 | CO4 | BT1 | 1.3. 1 |
| P | Q6 | Explain various code optimization techniques | 10 | CO5 | BT1 | 1.3. 2 |

| A R T- | 07 | What is SDD,SDT and Intermediate form of the code? What are the advantages of it? What are generally used intermediate forms? Write N-Tuple notation for: (a+b)*(c+d)- | | 7 | | 2.1. |
|--------------|----|--|-------|--------|------------------|------|
| D | Q7 | (a+b+c) | 20 | CO5 | BT2 | 1 |
| | Q8 | What is the difference between parse tree and syntax tree? Write appropriate grammar and draw parse as well as syntax tree for a*(a-a^a) | 10 | CO5 | BT2 | 1.3. |
| | | ****** END | ***** | ****** | CONSTRUCTION NOT | |

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DEPARTMENT OF Computer Science & Technology

"T3 Examination,Dec-2022"

| SEMESTER | VII | DATE OF EXAM | 12 Dec 2022 |
|-----------------|--------------------------|--------------|-------------|
| SUBJECT NAME | INFORMATION RETRIEVAL | SUBJECT CODE | CSH414B-T |
| BRANCH | CSE/DSML/DTE | SESSION | Morning |
| TIME | 9:00am -12:00pm | MAX. MARKS | 100 |
| PROGRAM | B.Tech 7sem | CREDITS | 5 |
| NAME OF | Mr. Agha, Mr. Sanjay | NAME OF | Ms. Meena |
| FACULTY | ,Ms. Dimple, Ms. Meena | COURSE | Chaudhary |
| | Chaudhary | COORDINATOR | 1 |

Note: All questions are compulsory.

| |).NO. | QUESTIONS | MARK S | CO ADD RESS ED | BLO OM' S LEV EL | PI |
|--------|-------|--|-----------|-------------------------|------------------------------|-------|
| PART-A | Q1 | Consider the following axioms: Sohani likes all kind of food. Banana and Cucumber are food. Anything anyone eats andis not killed is food. Ayusheats peanuts and still alive Prove by resolution that:Sohani likes peanuts. | | | 15" | est. |
| Г-А | Q2 | Represent by a semantic net the objects and relations described in the sentence: • Every girl loves to party. • Ankita believes that orange is tasty. | 10 | CO1 | BT4 | 1.4.1 |
| PART-B | Q3 | Define Jaccard's coefficient. How it is used for ranking of web documents? .Find the value of Jaccard's coefficient of following set. Query: ides of March. Document1: Marcus and Caesar met in March. Document2: The fabulous March. | 10 | CO1 | BT3 | 1.3.1 |

| | | Explain extended Boolean model versus Ranked |] | | | |
|--------|--|--|----|-----|-----|---------------|
| | Q4 | retrieval Model for Information Retrieval . Let us have the following set of index terms | 10 | CO2 | BT2 | 1.4.1 |
| Ρ, | | K = {"Frodo", "Sam", "blue", "sword", "orc", "Mordor"} Let us have the following collection of documents d1: {"Frodo stabbed the orc with the red sword"} d2: {"Frodo and Sam used the blue lamp to locate orcs"} d3: {"Sam killed many orcs in Mordor with the blue sword"} | | | e Š | e e |
| Ħ | Q5 | Which documents are relevant for the following queries? Explain with the help of Boolean Retrieval Model | 10 | CO3 | BT4 | 1.3.1 |
| PART-C | Q6 | Discuss the significance of Zipf's Law for modeling the distributing of terms. Is there any other application where we can use this law? | 10 | CO3 | ВТ3 | 1.4.1 |
| | W 70 2 | Explain the Heap's Law for Estimating the Number of | | CO3 | D13 | 1.4.1 |
| | Q7 | Terms, along with the mathematical model that behind it. | 10 | CO3 | BT3 | <u>1</u> .3.1 |
| | Q8 | Explain the hypothesis used in vector space model for classification. How document are represented Using Naïve Bayes. | 10 | CO4 | BT2 | 1.4.1 |
| PART-D | Q9 | Suppose the document collection contains two documents: d1: Xyzzy reports a profit but revenue is down d2: Quorus narrows quarter loss but revenue decreases further The model will be MLE unigram models from the documents and collection, mixed with $l = 1/2$. Suppose the query is revenue down. Then: find 1. $P(q d1)$ 2. $P(q d2)$ What is the final result? | 10 | CO4 | BT4 | 2.2.4 |
| | Q10 | Differentiate between Dictionary compression and Postings file compression with example. | 10 | CO4 | BT3 | 2.2.4 |
| | ************************************** | | | | | |

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DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

"End Semester Examination, Dec-2022"

| SEMESTER | All to | DATE OF EXAM | 14.12.2022 |
|--------------------|--------------------------------|----------------------------------|----------------|
| SUBJECT NAME | SOFTWARE PROJECT MANAGEMENT | SUBJECT CODE | CSH307B-T |
| BRANCH | DSML | SESSION | 9AM-12PM |
| TIME | 3Hrs | MAX. MARKS | 75 |
| PROGRAM | CSE | CREDITS | 4 |
| NAME OF FACULTY | Mr. Agha Imran | NAME OF COURSE COORDINATOR | Mr. Agha Imran |

Note: Attempt all questions.

| | Q.NO. QUESTIONS | | | CO ADDRESSED | BLOO M'S LEVEL | PI |
|--------|-----------------|--|-------------------------------|-----------------|----------------------|-------|
| FAKI-A | Q1 | What you understand by Activity Diagram? role of Activity Diagram in any software pr Explain. Draw the Activity Diagram for ER | oiect? | | BT2, BT3 | 2.2.2 |
| PART-B | Q2. | The following details are available regards Determine the critical path, the critical act the project completion time. Activity | ing a project: ivities and | CO1 | втз | 2.2.2 |

| PART-C | Q3 (A) | What would be the basic COCOMO equations form? A project size of 800 KLOC is to be developed. Software development team has average experience on similar type of projects. The project schedule is not very tight. Calculate the Effort, development time, average staff size, and productivity of the project. | 15 | CO2 | ВТЗ | 3.2.2 | |
|--------|-----------|--|------------|-----|-----|-------|---|
| | (B) | Define contract management, What are the advantages & disadvantages of fixed price contracts? | 10 | CO3 | BT2 | 3.2.4 | 1 |
| PART | Q4 (A) | Write a short note on SEI capability maturity model (CMM). | 10 | C04 | BT2 | 4.1.2 | - |
| RT-D | Q4 (B) | Explain Quality Characteristics and ISO 9126. | 10 | CO5 | BT2 | 4.2.2 | |
| | | | 野 月 | | | A | |

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DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

"T3 Examination, December -2022"

| SEMESTER | 7th Sem | DATE OF EXAM | 14/12/2022 |
|--------------------|-------------------------------------|----------------------------|------------|
| SUBJECT NAME | Software Requirement Engineering | SUBJECT CODE | CSH412B-T |
| BRANCH | CSE | SESSION | First |
| TIME | 3 Hour | MAX. MARKS | 75 |
| PROGRAM | B.Tech | CREDITS | 04 |
| NAME OF FACULTY | Dr Prinima, Mr Narender Gautam | NAME OF COURSE COORDINATOR | Dr Prinima |

Note: Part A: Each Question carries 5 marks.

Part R: Each Question carries 10 marks.

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| Q | .NO. | QUESTIONS | | CO ADDRE SSED | BLO OM'S LEVE L | PI |
|-------------|------|---|----|---------------------|--------------------------|-------|
| | 1(A) | What issues might arise when a requirements engineer, who is not a subject matter expert, enlists a subject matter expert to assist in defining requirements? | 5 | COI | BT2 | 3.1.2 |
| P | 1(B) | Differentiate between Requirement validation and verification? | 5 | CO2 | BT2 | 1.4.1 |
| A R | 1(C) | Why can it be difficult for agile methodologies to cover nonfunctional requirements? | 5 | CO3 | BT <u>2</u> | 1.4.1 |
| T- A | 1(D) | What are the advantages and risks of having requirements engineering conducted (or assisted) by an outside firm or consultants? | 5 | CO2 | BT2 | 3.1.2 |
| | 1(E) | When selecting an open-source tool, what characteristics should you look for? | 5 | CO4 | BT2 | 3.1.2 |
| P A R | Q2 | Create and describe a Rich picture diagram for the airline reservation system. | 10 | CO1 | ВТ3 | 2.3.1 |
| T- B | Q3 | For the airport baggage handling system, generate the user story and use case for dealing with a lost piece of baggage. | 10 | CO4 | BT3 | 2.3.1 |
| | Q4 | Draw a Use case diagram for a Social Networking Site. | 10 | CO2 | BT3 | 2.3.1 |
| | Q5 | Here are some examples of vague and ambiguous requirements that have actually appeared in real | 10 | CO2 | BT3 | 2.3.1 |

| | requirements specifications. Discuss why they | | | | |
|---------------------------------------|---|-------|-----|------|-------|
| 3,5 | are vague, incomplete, or ambiguous. Provide | | | | |
| | improved versions of these requirements (make | | | | |
| | necessary assumptions). | | | | |
| | a) The engineer shall manage the system | | | | |
| da la complete | activity, including the database. | | | | |
| | b) The system will provide an effective means | | | | |
| | for identifying and eliminating undesirable | | | i y | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | failure modes and/or performance | | | | |
| | degradation below acceptable limits. | | | | |
| 300 | | | | | |
| Total State of State of | Explain 3 Objections, 4 Myths, and 3 Limitations of | | | i.i | |
| Q6 | Formal methods? | 10 | CO3 | BT1- | 1.4.1 |
| PATRICINES | ******** END ****** | ***** | K W | 是四世 | |



DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

Even SEMESTER (Jul-Dec 2022)

FACULTY NAME: Dr Neelu Chaudhary

NAME OF COURSE COORDINATOR: Dr Neelu Chaudhary

COURSE CODE:

TIME DURATION:

DATE OF EXAM:

COURSE NAME: Big Data | CSH426B/CSH43BT | CREDIT: 05 | MAX. MARKS: 100 | PROGRAM: B.Tech CSE-DSML/CSE-DTE/ECE | SEMESTER: 7th | Semion -

3:00 hrs

16-12-22

Note: All Questions are Compulsory.

| | | A CAMPAGE TO THE STATE OF THE S | 715.0 | | Mon | 1 |
|-------|------|--|-------|--------------------|----------------------|-------|
| art . | Q.NO | QUESTIONS | MARKS | ADDRESS ED | BLOO M'S LEVEL | P1 |
| A | 1(a) | In real-time applications what are the sources of data? Differentiate between various categories of data. Elaborate your answer with valid examples. | _ | | | |
| | 1(b) | Is Data Science different from big data? Justify your answer | 5 | CO1 | BT3 | 1.4.1 |
| В | 2 | What are the configuration parameters in a "MapReduce" program? What are the Daemons of Hadoop? Explain it's working with the help of suitable diagram. | 3 | COI | Б12 | 1.4.1 |
| | 3(a) | Explain the evolution of big data analytics and their advantage in handling real world data. | 10 | CO2 CO1. CO3 | BT2 | 1.4.1 |
| С | 3(b) | If a client application wants to read or write data on Hadoop system, how it can interact with name node and data node, justify your answer with suitable diagram | 10 | CO3 | вт2 | 1.4.1 |
| とは | | Explain how New SQL is best suited for higher performance. Diffrentiate its features with SQL and No SQL. | 20 | CO3 | BT2 | 1.4.1 |
| | 5(a) | to the second se | | CO1,CO4 | втз | 1.4.1 |
| | 5(b) | Write commands to create and manage databases and tables in hive. | 10 | CO4 | BT2 | 1.4.1 |
| D | 6(a) | Write short notes on the following with examples : a. Business Intelligence on Hadoop b. R-Programming and MongoDB | 10 | CO1,CO4 | вт2 | 1.4.2 |
| | 6(b) | Explain the complete Ecosystem of Hadoop with suitable diagrams | 10 | CO4 | BT3 | 1.4.1 |
| | | TotalMarks | | 100 | | 1.7.1 |