



**MANAV RACHNA
UNIVERSITY**

(FORMERLY MANAV RACHNA COLLEGE OF ENGINEERING
NAAC ACCREDITED 'A' GRADE INSTITUTION)

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

DEPARTMENT OF CHEMISTRY

"T3 Examination; 2017.-18"

Semester: VI

Subject: Industrial Applied Chemistry

Branch: Chemistry

Course Type: Hard

Time: 3 Hours

Max. Marks: 80

Date of Exam: 15/05/2018

Subject Code: CHH 329-T

Session: I

Course Nature: Hard

Program: B.Sc

Signature: HOD/Associate HOD:

Necessary Instructions:

Section A: All Questions are Compulsory.

Section B: Attempt any two out of three.

Section C: Attempt any two out of three.

SECTION-A

Short Answer Type Questions

20 Marks

Q 1: List 3 uses of Insecticides?

Q 2: what do you understand by a term "Herbicides" and "Fungicides" Name at least 2 examples of each?

Q 3: Role of N, P and K in NPK Fertilizers?

Q 4: Explain micronutrients and their role in Fertilizers?

Q 5: What is PCP, Explain?

Q 6: Why car paints are not used as nail enamel?

Q 7: Name 2 natural and 2 synthetic ingredients of hair spray?

Q 8: Define characteristics of a Lipstick?

Q 9: What are the detergents used in shampoo and why?

Q 10: Give chemical structure of the following

- Eugenol
- Geraniol

SECTION-B

Attempt any two out of three

30 Marks

Q 1

(a) Contact Poison is one of the modes of penetration of insecticides; explain in detail? 4 marks

(b) Explain Inorganic Insecticides, their types with examples? 5 marks

(c) Briefly Explain DDT, BHC and PCP? 6 marks

Q 2

- (a) Explain chemical pesticides, their types and define their mode of action? 5 marks
(b) Classify pesticides on basis of pest they control? 5 marks
(c) Explain 2,4-D and 2,4,5- T in herbicides? 5 marks

Q 3: Write a short note on

- (1) Borda Mix
(2) Lime sulphur
(3) Ammonium Nitrate
(4) Mixed Fertilizers
(5) Diammonium Phosphate

(5 × 3 = 15 marks)

SECTION-C

Attempt any two out of three

30 Marks

- Q 1(a) what are the ingredients used in the preparation of permanent dyes? 5 marks
(b) What are the chemicals used as additives in shampoo and define their role? 5 marks
(c) Explain the characteristics of a face powder and how it can be achieved? 5 marks

- Q 2 (a) Explain the ingredients used in an nail Enamel? 3 marks
(b) What do you understand by Suntan and how to protect from sun tans? 3 marks
(c) Write the steps involved for the preparation of Cold creams? 3 marks
(d) Explain how lipstick is being manufactured? 4 marks
(e) Why vanishing creams are named as “Vanishing” Explain? 2 marks

- Q 3 (a) Explain Antiperspirants and the chemicals used to prepare antiperspirants? 4 marks
(b) What are essential oils and how they generally produced? 3 marks
(c) Write a short note on any 4: (4 × 2 = 8 marks)
(i) Eugenol
(ii) Eucalyptus oil
(iii) Jasmone
(iv) Sandal wood oil
(v) Rose oil
