



**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 .2018"

Semester: VI

Subject: Industrial Chemical And Environment

Branch: B.Sc. Chemistry

Course Type: Core

Time: 3 Hours

Max.Marks: 80

Date of Exam: 21.05.2018

Subject Code: CHH-332-T

Session: I

Course Nature: Hard

Program: B.Sc (Hons.) Chemistry

Signature: HOD/Associate HOD:

Section A

Note: All questions are compulsory, each question carries two marks.

Question 1a. Differentiate between primary and secondary pollutants?

- b) Define the term Photo-chemical reaction?
- c) What is the significance of Stratosphere?
- d) Differentiate between Convection and Radiation?
- e) Differentiate between contamination and pollution?
- f) Define the term Reverse Osmosis and Diffusion?
- g) Differentiate between influent and Effluent?
- h) Differentiate between point and non point source of pollution?
- i) Define the term Albedo?
- j) Define the term 'Activated Sludge Process'?

Section B

Note: Attempt any two questions (long answer type question), each question carries 15 marks

Question 2: Describe the Sources of Air pollution and its adverse impact on Environment?

Question 3: Explain the photochemical mechanism of ozone formation and depletion in stratosphere?

Question 4: Describe the carbon and nitrogen cycle by diagrammatic explanation?

Section C

Note: Attempt any two questions (long answer type question), each question carries 15 marks

Question 5: Describe the wastewater treatment process municipal waste water?

Question 6: What are the different water quality parameters? Describe each with significance?

Question 7: Describe the process of Ion Exchange for water purification?