

P P SAVANI UNIVERSITY

Fifth Semester of B. Tech. Examination

December 2021

SECV3040 Environmental Engineering

13.12.2021, Monday

Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1 Answer the Following: (Any Five) [05]

(i) What is environmental degradation?

(ii) Define IPAT.

(iii) The polluted water is one which _____.

(iv) Which of the following is not a practical method of low level radioactive waste disposal?	
a. Dilution with inert material	c. Disposing off in rivers & oceans
b. Discharging to atmosphere through tall stacks after dilution	d. Filling in steel crates and shooting it off out of earth's gravity

(v) What is Global worming?

(vi) The devices which are installed for drawing water from the sources are called

a. Aquifers	c. Filters
b. Aquiclude	d. Intakes

(vii) What is the main reason for thermal pollution?

Q - 2 (a) What is an impact of technology on environment? [05]

Q - 2 (b) What are the different Environmental problems? Explain any one in detail. [05]

OR

Q - 2 (a) Explain in detail man and environment relation. [05]

Q - 2 (b) What is Environment degradation? What are the factors affecting on it? [05]

Q - 3 (a) "Water contamination may or may not be present in polluted water" Justify the statement [05]

Q - 3 (b) What are the various sources of air pollution? Explain in detail. [05]

OR

Q - 3 (a) Explain point and non-point sources of water pollution. [05]

Q - 3 (b) What are the various methods for Prevention and control the air pollution? [05]

Q - 4 Attempt any one. [05]

(i) What are the reasons of the Air pollution?

(ii) Write a short note on Eutrophication

SECTION - II

Q - 1 Answer the Following: (Any Five) [05]

(i) Pascal is a unit measurement for _____.

(ii) What is Municipal waste?

(iii) Define noise pollution?

(iv) Which is the best way to control noise pollution among the four fundamental ways?	
a. Reduce noise at the source	c. Increase the path length
b. Block the path of noise	d. Protect the recipient
(v) Which one of the following is the apex organization in the country in the field of pollution control?	
a. Water Pollution Control Board	c. Central Pollution Control Board
b. State Pollution Control Board	d. Air pollution Control Board

- (vi) What is land degradation? [05]
(vii) What is incineration? [05]
- Q - 2 (a) Define Noise pollution and its unit of measurement. Which are the sources of Noise pollution? [05]
- Q - 2 (b) Explain in detail causes of soil pollution. [05]
- OR
- Q - 2 (a) Discuss the effects of noise pollution on human beings and suggests some control measures [05]
Q - 2 (b) Briefly explain control measures of soil pollution. [05]
- Q - 3 (a) What are the characteristics of Municipal waste? [05]
Q - 3 (b) Enlist different disposal technologies used for hazardous waste and discuss method of incineration used for disposal of toxic waste. [05]
- OR
- Q - 3 (a) What are the various methods for disposal the solid waste? [05]
Q - 3 (b) What are the salient features of Environmental Management System, [05]
Q - 3 (b) Schematically .discuss the mechanical composting method of solid waste disposal and compare it with the method of sanitary land filling [05]
- Q - 4 Attempt any one. [05]
- (i) Write salient features of air & water pollution control act.
(ii) Write a short note on functions of state /central pollution control boards.
