

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Environmental Engineering

Subject Code: 4TE05ENE1

Branch: B.Tech (Civil)

Semester: 5 Date : 05 /12 /2018

Time : 10:30 To 01:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions: (14)

- a) Define Lithosphere.
- b) Enlist the different categories of environment.
- c) List out the water borne diseases.
- d) Give the objectives of water treatment process.
- e) Enumerate the major effects of the noise pollution.
- f) Fluoride pollution mainly affects which part of the body?
- g) Give any two examples for non-renewable energy sources.
- h) Define leachate.
- i) Abbreviate the term 'DO'.
- j) Write down the reason for Environmental degradation.
- k) Give the advantages of Renewable energy sources.
- l) Write the use of pesticides in agricultural field.
- m) What do you understand by the word sustainable development?
- n) What is meant by Mortality rate?

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions (14)

- (a) Discuss the socioeconomic measures for population control. **07**
- (b) State the role of microbes in the environment. **07**

Q-3 Attempt all questions (14)



- (a) Calculate the population of town after two decade for following data by any two methods. 08

Year	Population
1980	25000
1990	28000
2000	34000
2010	42000
2020	48000

- (b) What is meant by Eutrophication? How to control it? 06

Q-4 Attempt all questions (14)

- (a) Draw a layout of water treatment plant with indicating its each process and also explain it. 08

- (b) Write short notes on: 06

i) Screening ii) Grit chamber iii) Sedimentation

Q-5 Attempt all questions (14)

- (a) Explain the effect of air pollution on men, material and animals. 08

- (b) Explain the source of air pollution. 06

Q-6 Attempt all questions (14)

- (a) What do you understand by the word 'Integrated Pest Management (IPM)'? 07

- (b) What is meant by Agrochemicals? 03

- (c) Differentiate between sound and noise. 04

Q-7 Attempt all questions (14)

- (a) Explain organometallic Compounds in the Environment. 04

- (b) What is solid waste management? Describe it with flow diagram indicating its all functional elements? 07

- (c) Write short note on: Sewage sickness 03

Q-8 Attempt all questions (14)

- (a) Explain the treatment process of waste water disposing from dairy industry. 07

- (b) Describe briefly various methods of collection of solid waste. 07

