

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2020

Subject Name: Environmental Engineering

Subject Code: 4TE05ENE1

Branch: B.Tech (Civil)

Semester : 5

Date : 04/03/2020

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) What are the sources of water?
- b) How many layers in atmosphere?
- c) Give any two examples for non-renewable sources.
- d) What is the name of Movement of people into country/city?
- e) What is meant by ozone depletion?
- f) What do you understand by the term 'Potable water'?
- g) The concentration of which gas is highest in our environment?
- h) In small cities which method of population forecasting is suitable?
- i) What is Demography?
- j) List out the water borne diseases.
- k) What is meant by Agrochemicals?
- l) What are primary air pollutants?
- m) Abbreviate BOD.
- n) Define Mortality rate.

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

Q-2 Attempt all questions (14)

- (a) What do you understand by the word sustainable development? **07**
- (b) Explain the structure of environment with neat sketch. **07**



- Q-3 Attempt all questions (14)**
- (a) Write short notes no: i) Coagulation and ii) flocculation **08**
- (b) What is air pollution? Explain in detail its effects on property and materials. **06**
- Q-4 Attempt all questions (14)**
- (a) Calculate the population of a town after four decades for following data by any two methods. **08**
- | Year | 1980 | 1990 | 2000 | 2010 | 2020 |
|------------|-------|-------|-------|-------|-------|
| Population | 30000 | 33000 | 41000 | 48000 | 55000 |
- (b) What do you understand by the term ‘Eutrophication’? How to control it. **06**
- Q-5 Attempt all questions (14)**
- (a) Describe briefly various methods of collection of solid waste. **07**
- (b) Write short note on: Sewage sickness **03**
- (c) Differentiate between Renewable and non-renewable energy. **04**
- Q-6 Attempt all questions (14)**
- (a) Explain DO sag curve with sketch. **07**
- (b) What is noise pollution? State the sources of it and list the major effects of the noise pollution. **07**
- Q-7 Attempt all questions (14)**
- (a) Enlist different physical and chemical characteristic of water & discuss their environmental significance. **07**
- (b) Write short note on: typical composition of dairy waste. **07**
- Q-8 Attempt all questions (14)**
- (a) What do you understand by the word ‘Integrated Pest Management (IPM)’? Explain with suitable example. **07**
- (b) State the role of microbes in the environment with brief explanation. **07**

