

Enrollment No: _____

Exam Seat No: _____

C.U. SHAH UNIVERSITY

Summer Examination-2020

Subject Name: Environmental Engineering & Management

Subject Code: 4TE01EEM2

Branch: B.Tech (All)

Semester: 1

Date: 06/03/2020

Time: 02:30 To 05:30

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 renewable energy resources? (1)
 - b) Define flora and fauna. (1)
 - c) What is In-situ conservation? (1)
 - d) Define biodiversity. (1)
 - e) What is drought? (1)
 - f) What is sustainable development? (1)
 - g) Define acid rain. (1)
 - h) Define herbivores. (1)
 - i) What is thermal pollution? (1)
 - j) What is potable water? (1)
 - k) What is eutrophication? (1)
 - l) What is genetic diversity? (1)
 - m) What is biosphere? (1)
 - n) Define tropic level. (1)

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

- Q-2 Attempt all questions (14)**
- A) What is biogeochemical cycle? Explain hydrological cycle with neat sketch. (7)
 - B) Enlist various types of ecosystem. Explain grassland ecosystem in detail. (7)
- Q-3 Attempt all questions (14)**
- A) What is energy and energy resources? Write in brief about different energy resources. (7)
 - B) Explain the need for public awareness about the environment and its degradation. (7)
- Q-4 Attempt all questions (14)**
- A) Define ecological succession and its causes. Also explain primary succession and secondary succession. (7)
 - B) Explain the effect of timber extraction, mining and dam on the forest. (7)
- Q-5 Attempt all questions (14)**
- A) Discuss the status of India as a mega diverse nation of biodiversity. (7)
 - B) Write the effect of pollution on Ganga River. Mention the initiatives taken by present (7)



government to overcome it.

- Q-6** **Attempt all questions** (14)
- A) Narrate the Bhopal Gas Tragedy. (7)
- B) Write in detail about the mineral resources, its uses and exploitation, its environmental effects of extracting and using mineral resources. (7)
- Q-7** **Attempt all questions** (14)
- A) What are the threats to biodiversity in view of habitat loss and man-wild life conflict? Enlist the endangered and endemic species of India. (7)
- B) What is noise pollution? How is it measured? Describe the effects of noise pollution on human. (7)
- Q-8** **Attempt all questions** (14)
- A) Differentiate renewable and non-renewable energy resources and discuss the effect of overpopulation on energy problems. (7)
- B) What do you understand by 'Hot Spot of Biodiversity'? Name and briefly describe the two hotspots of biodiversity that extend into India. (7)

