7E1711

Roll No. _____

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B. Tech. VII - Sem. (Main) Exam., Feb.- March - 2021
OE -I Open Elective-I Agricultural Engineering
7AG6 – 60.2 Environmental Engineering & Disaster Management

Time: 2 Hours

[To be converted as per scheme]
Max. Marks: 82
Min. Marks: 29

Instructions to Candidates:

Attempt all ten questions from Part A, four questions out of seven questions from Part B and two questions out of five from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used /calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL 2. NIL

PART – A

(Answer should be given up to 25 words only) **[10×2=20]**

All questions are compulsory

Q.1 Define Environmental Engineering.
Q.2 What is disaster management?
Q.3 What is environment?
Q.4 What is water sanitation?
Q.5 List the sources of water supply.
Q.6 Define the pH of drinking water.
Q.7 What is air pollutant?
Q.8 Define smog with an example.
Q.9 What is bio-magnification?
Q.10 Enlist different types of air pollutants.

PART – B

(Analytical/Problem solving questions) **[4×8=32]**

Attempt any four questions

Q.1 Describe the components of environment in short.

Q.2 Write in brief, standards of drinking water.

Q.3 Write down steps /ways to meet the water crisis.

Q.4 What is waste and why does it require management?

Q.5 Write in short the various types of natural, human induced and slow acting disasters.

Q.6 When is the National Disaster Reduction Day celebrated in India and why?

Q.7 Report the state of urban air pollution in India. What is its impact on health, especially on that of children?

PART – C

(Descriptive/Analytical/Problem Solving/Design Questions) **[2×15=30]**

Attempt any two questions

Q.1 Elaborate – scope and importance of Environmental Engineering. Why do we say that any study of the environment becomes an interdisciplinary one?

Q.2 Discuss the requirements for urban and rural water supply system. How does intake and transportation of water affect its quality?

Q.3 How will you measure the quality of drinking water? Why water is a unique source and how much water do we need daily?

Q.4 What is a solid waste? Describe sources of solid waste. Give a detailed account of solid waste management.

Q.5 Explain how do educated people view global warming and climate change. Why do we have so many sceptics? How can we convince them of the urgency of climate change?
