

AU – 2846

Seventh Semester B. E. (Civil Engineering) Examination

ENVIRONMENTAL POLLUTION AND RURAL SANITATION

Paper – 7 CE 05

(USC – 10223)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) Separate answer book must be used for each section in the subject Geology, Engineering material of civil branch and Separate answer book must be used for Section A and B in Pharmacy and Cosmetic Tech.
- (2) All questions carry equal marks.
- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Assume suitable data wherever necessary.
- (5) Diagrams and Chemical equations should be given wherever necessary.
- (6) Illustrate your answer wherever necessary with the help of neat sketches.
- (7) Use pen of Blue/Black ink/refill only for writing the answer book.

SECTION A

1. (a) What are the general components of environment ? 7
- (b) Write in detail about nature and scope of Environmental Pollution ? 7

OR

2. (a) How population growth affects environment ? 7
- (b) Define Environmental pollution episode. Write in detail about any one Environmental Pollution episode. 7
3. (a) Explain D. O. Sag curve. How it is beneficial in controlling water pollution? Explain. 7
- (b) Explain various water pollution and protection act. Discuss any one in detail. 6

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OR

4. (a) What is noise pollution ? Discuss the sources and effects of Noise Pollution. 7
(b) Write in short about human tolerance level of noise pollution. 6
5. Explain various units of municipal waste water treatment plant with the help of neat sketch (flow chart). 13

OR

6. Explain various units of dairy industry effluent treatment plant with the help of flow chart. 13

SECTION B

7. (a) What are the types and sources of solid waste ? 7
(b) State and explain various methods of collection of solid waste. 7

OR

8. (a) What are the causes of contamination of land ? 7
(b) Write in detail about hazardous waste management. 7
9. (a) What is EIA ? Explain the need of EIA. 7
(b) What are the various environmental attributes ? (Enlist them according to environmental parameters) 6

OR

10. (a) State various elements of EIA. 7
(b) Explain short term and long term and local and regional impacts in EIA. 6

11. State the different methods of night soil disposal. Explain any two in detail.

13

OR

12. (a) Draw a neat sketch of biogas plant ? Give the name of essential components ?

7

(b) State and explain design components of biogas plant. Explain in detail how to decide the capacity of biogas plant ?

6



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