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Question Paper Code : 31128

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Third/Fourth/Fifth Semester

Civil Engineering

GE 2021 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to all Branches)

(Regulation 2008)

(Also common to PTGE 2021 — Environmental Science and Engineering for
B.E. (Part-Time) Second Semester — Common to all branches — Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the significant role of public awareness in environmental maintenance.
2. What are called endemic species? Give two examples.
3. What is thermal pollution?
4. How can landslides be prevented?
5. What is the reason for over-exploitation of forests?
6. Define 'Renewable energy'.
7. What are the effects of ozone layer depletion?
8. Mention a few roles non-governmental organizations in the environmental maintenance.
9. 'Population explosion is the fundamental cause of any environmental problem' — Verify.
10. Mention a few family welfare programmes connected to environmental activities.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Give the structure and function of the grassland ecosystem. (8)
(ii) What are the causes and consequences of man-wildlife conflicts? Suggest a Few preventive measures. (8)

Or

- (b) (i) How is energy-flow depicted in an ecosystem? What are its various models? (8)
(ii) Discuss the importance of biodiversity through their varied values. (8)
12. (a) (i) How are water pollutants classified? Mention the sources and ill-effects of any six water pollutants. (8)
(ii) Elaborate the vital role of individuals in controlling pollution. (8)

Or

- (b) (i) What is noise pollution? What are its sources? How can it be prevented? (10)
(ii) Briefly discuss the various issues pertaining to municipal solid waste management. (6)
13. (a) Discuss the advantages and disadvantages of building huge dams across rivers with reference to environmental and ecosystem stability. (16)

Or

- (b) (i) Discuss the advantages and disadvantages of modern agricultural practices. (8)
(ii) Explain the effects of human activities of exploitation of mineral resources on the environment. (8)
14. (a) (i) How is 'rain water harvesting' carried out? Why is it so essential and effective in urban areas particularly? (8)
(ii) Give a brief account on environmental maintenance through environmental legislation. (8)

Or

- (b) (i) Discuss the need to have environmental ethics in every of our day-to-day activities. (8)
(ii) Give a brief account of global warming. (8)

15. (a) (i) 'It is human right to have a good environment and health'.
Elucidate. (8)
- (ii) Give the details about any two family welfare programs related to
environment. (8)

Or

- (b) Explain in detail the role of information technology in environment and
human health. (16)
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