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Question Paper Code : 50717

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Second/Third/Fourth/Fifth/Sixth/Seventh Semester

Civil Engineering

GE 8291 — ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to All Branches)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is meant by an ecosystem?
2. Write the services provided by the forest ecosystem.
3. Mention the control measure adapted for the marine pollution.
4. State about the control measures adapted to control the municipal solid wastes.
5. Give a brief description about the impact of over exploitation of forest resources.
6. State the impacts of modern agricultural practices.
7. Mention about the concept of sustainable development.
8. List out the activities of state pollution control boards.
9. Give a brief note on the values of human rights.
10. Write the importance of value education for the conservation of environment.

PART B — (5 × 13 = 65 marks)

11. (a) Elaborate on the importance of the grassland ecosystem and aquatic ecosystem. (6 + 7)

Or

- (b) Summarize the impacts of habitat loss, poaching of wildlife and man-wildlife conflicts.

12. (a) Explain the causes and effects of water pollution and soil pollution. (7 + 6)

Or

- (b) Give a detailed account on the disaster management practices adapted for earthquakes and landslides. (7 + 6)

13. (a) Summarize the issues related to the over exploitation of ground water and surface water. (6 + 7)

Or

- (b) Summarize the causes and impacts of land degradation and desertification. (7 + 6)

14. (a) Elaborate on the important aspects of resettlement and rehabilitation of people. (7 + 6)

Or

- (b) Elaborate on the influences of climate change towards global warming. (13)

15. (a) Compare the influences of variation in population between developed and developing countries. (13)

Or

- (b) Summarize the importance of information technology in the conservation of environment and the protection of human health. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Compare the situation of India and USA with respect to the consumerism and waste products.

Or

- (b) Explain the importance of wildlife protection act and forest conservation act. (7 + 8)