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Question Paper Code : X10560

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020/
APRIL/MAY 2021

Second/Third/Fourth/Fifth and Sixth 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. Write the important functions of an ecosystem.
2. What are the causes of threats to biodiversity ?
3. Specify the effects of air pollution.
4. Justify the role of an individual in the prevention of pollution.
5. State the benefits of dams.
6. Specify about the effects of practicing modern agriculture.
7. Mention about the advantages and disadvantages of nuclear energy.
8. State about the role of state pollution control board.
9. Write about the issues related to population explosion.
10. Specify the importance towards the consideration of women and child welfare.

PART – B

(5×13=65 Marks)

11. a) Explain the characteristic features, function and structure of aquatic ecosystem with respect to lakes, rivers and estuaries.

(OR)

- b) Summarize about the practice of conservation of biodiversity based on in-situ and ex-situ aspects.

X10560

*** X10560T ***

12. a) Elaborate on the causes and impacts of noise pollution and thermal pollution.

(OR)

b) Summarize on the importance of disaster management with respect to floods and cyclone based on the recent incidents happened in Kerala and Tamil Nadu.

13. a) Explain the process of generation and utilization of surfaces water and ground water.

(OR)

b) Summarize on the importance of utilization of bio gas and bio fuel in the energy sectors.

14. a) Summarize on the sustainable practices required with respect to water conservation, rain water harvesting and watershed management.

(OR)

b) Write about the water (prevention and control of pollution) act and Wildlife Protection Act.

15. a) Give an detailed account about the human rights and value education.

(OR)

b) Elaborate on the role of information technology towards the environment and human health.

PART – C

(1×15=15 Marks)

16. a) Explain the values of biodiversity.

(OR)

b) Explain the effects and control measures of soil pollution.
