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**Question Paper Code : X 60631**

B.E./B.Tech. DEGREE EXAMINATIONS, NOV./DEC. 2020  
Third/Fourth/Fifth/Sixth/Eighth Semester  
Civil Engineering  
GE 2021 – ENVIRONMENTAL SCIENCE AND ENGINEERING  
(Common to all Branches)  
(Regulations 2008)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

**(10×2=20 Marks)**

1. What is an ecosystem ?
2. Differentiate between food chain and food web.
3. Define BOD<sub>5</sub>.
4. What is photochemical smog ?
5. Define COD.
6. What is population pyramid ? Explain.
7. What is acid rain ?
8. What is sustainability in context to environment ?
9. What is value education ?
10. Mention two precautions to avoid AIDS.

**PART – B****(5×16=80 Marks)**

11. a) Explain the structure and functions of all Ecosystems. **(16)**  
(OR)
- b) i) Explain the conservation of biodiversity in Global level. **(8)**  
ii) What is Food chain ? How is it important to nation ? **(8)**
12. a) i) Explain the major water pollutants and their effects. **(8)**  
ii) List and explain the methods of waste management in the order of preference. **(8)**  
(OR)
- b) i) Discuss the source, effects and control measures of thermal pollution. **(8)**  
ii) What is an earth quake ? Write its effect. What measures should be taken to mitigate the disaster ? **(8)**
13. a) Describe the problems associated with the over exploitation of forest resources. **(16)**  
(OR)
- b) i) What is Chipko movement ? **(4)**  
ii) Describe about renewal resources and their advantages and disadvantages. **(12)**
14. a) Write short notes on : **(4×4=16 Marks)**  
i) Water (Prevention and Control of Pollution) Act  
ii) Forest Conservation Act  
iii) Acid rain  
iv) Water shed management.  
(OR)
- b) Define global warming and illustrate the various ill-effects on the environment and other life forms on earth.
15. a) i) Explain the term population explosion. Enumerate its effects. **(8)**  
ii) What is AIDS ? What are the sources and mode of transmission of HIV infection ? **(8)**  
(OR)
- b) i) Write an explanatory note on human right and family welfare. **(8)**  
ii) Discuss the role of information technology in environment and human health. **(8)**
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