

2008 ANNA UNIVERSITY
B.E/B.TECH III SEMESTER
ELECTRONIC COMMUNICATION ENGINEERING
ENVIRONMENTAL SCIENCE AND ENGINEERING

TIME: 3 HOUR
MARK: 100

Answer All Question

PART A – (10×2=20 marks)

1. What are renewable and non-renewable energy resources? Give examples.
2. Mention the factors causing soil erosion?
3. What are autotrophic and heterotrophic components of an ecosystem? Give examples.
4. What is ecological succession? Mention their types.
5. Classify air pollutants with suitable examples.
6. What is meant by BOD and COD?
7. How does ozone layer depletion take place? Write its consequences
8. What is meant by sustainable development?
9. Define population explosion.
10. Write the expansion for HIV and AIDS.

PART B – (5×16=80 marks)

11. (a) Discuss briefly the ill-effects of deforestation.
- (b) Explain the benefits and problem of constructing dams.
- (c) Write short notes on the problem of fertilizers and pesticides on modern agriculture.

Or

12. (a) Write an explanatory note on any two non-conventional energy resources.
- (b) Discuss the uses and effects of over-utilization of surface and ground water sources.
13. (a) Define ecological pyramid and write a short notes on their types.
- (b) What is biodiversity? Discuss the genetic biodiversity and values of biodiversity.

Or

14. (a) Write short notes on energy flow in the ecosystem and food web.
- (b) What do you understand by conservation of biodiversity? Explain the 'Insitu and Exsitu conservation along with their merits and limitations'.
15. (a) Name and discuss the effects of water pollution. Suggest the various control and remedial measures to curb water pollution.
- (b) Write brief notes on solid waste management.

Or

16. (a) Explain the effects of air pollution on human health, plants and animals.

(b) What is an earthquake? Enumerate its effects? Briefly explain the measures should be taken to mitigate this disaster.

17. (a) What is 'rainwater harvesting'? Name and discuss in brief the types of rainwater harvesting.

(b) Write note on salient features of environmental protection act.

Or

18. (a) Write brief note on global warming and acid rain.

(b) Discuss the issues involved in the enforcement of environmental legislation.

19. (a) Enumerate the effects of population explosion.

(b) What is 'value education'? Discuss the concept of value education with the help of suitable examples.

Or

20. (a) Discuss the problems, diagnosis and control of AIDS.

(b) Discuss in detail the role of IT in protecting environment.

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