

Dec.-22-0114

HS-102 (Environment & Ecology)

B. Tech. 2nd (CBCS)

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt one question from each Section A, B, C & D. Section E is compulsory.

SECTION - A

1. Differentiate between renewable and non-renewable sources of energy. How can India be self-dependent in fulfilling its energy needs? (10)
2. Justify the statement—"It is essential to develop the non-conventional energy sources in the present day of technology". How can we use water more sustainably? (10)

SECTION - B

3. What is the meaning of bio-diversity? How conservation of bio-diversity affects social, ethical and moral values? (10)
4. (a) What is ecological succession and food chain? Explain. (5)
(b) What are the main causes of threat to species in India? (5)

SECTION - C

5. What is water pollution? What are its sources? How water pollution can be controlled? (10)

6. What is the function of Central and State Pollution Boards in the protection of environment? (10)

SECTION - D

7. What is chemical toxicology? Discuss the impact of toxic chemicals on enzymes. (10)
8. What is treatment of waste water? Discuss and also explain the sources and effects of municipal waste. (10)

SECTION - E (Compulsory)

9. (a) What is over-utilization of natural resources?
(b) What is scope of environmental studies?
(c) Define pyramid of biomass.
(d) Illustrate Vienna convention.
(e) Write the benefits of waste water management at present.
(f) Discuss renewable and non-renewable sources of energy.
(g) What are various threats to bio-diversity?
(h) What are resources?
(i) Define ecosystem.
(j) Define toxicity. (10×2=20)