

QP Code : 21725

(3 Hours)

[Total Marks : 70

- N. B. :** (1) All questions are compulsory.
(2) Draw neat diagrams wherever necessary.
(3) **Figures** to the **right** indicate **full marks**.

1. (a) What are biotic and abiotic components of an ecosystem. 2
(b) What are primary air pollutants. Give two examples. 2
(c) Give two examples each of renewable & non-renewable energy sources. 2
(d) Enlist advantages of wind turbines over conventional sources of energy. 2
(e) What is Biome? Give two examples. 2
(f) What is the scope of environmental studies? 2
(g) Define lithosphere. 1
(h) Give two examples of materials which can be recycled. 1
(i) Define Environmental Impact Assessment (EIA). 1

2. (a) Enumerate any two methods for control of air pollution. 4
(b) Enlist functions and powers of Central Control Pollution Board. 4

OR

Explain the role and stand of judiciary system and out comes of Taj Trapezium case study.

- (c) What are biogeochemical cycles? Describe the water cycle. 3

3. (a) Describe the concept of water conservation using the principle of 3 R's. 4
(b) Discuss adverse effects and control measures for water pollution. 4
(c) Explain the concept of Green Building. 3

OR

Write a note on carbon credit. What are it's advantages.

4. (a) What are ecological pyramids? Explain why some of these pyramids are upright while others are inverted in different ecosystems. 4
(b) What is geothermal energy? With the help of neat sketch explain steam power plant. 4

OR

What are solar cells? With the help of a neat sketch explain principle and working of flat plate collector.

- (c) Explain the steps involved in environmental clearance. 3

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5. (a) Classify solid waste. How can the solid waste be managed by vermicomposting. 4
(b) Explain the sources & effects of air pollution with respect to global warming and ozone layer depletion. 4

OR

Write a note on sources effects & control of noise pollution.

- (c) Discuss major environmental impact of deforestation. 3
6. (a) What is disaster mitigation? Enumerate on measures included in disaster mitigation. 3

OR

Explain with the help of case study disaster management pertaining to earthquake that occurred in Japan.

- (b) Write in brief role of technology in environment and health. 3
(c) What are the causes and effects of acid rain. 3
(d) Write a note on indoor air pollution. 2