

(2 Hours)

[Total Marks : 60

- N.B. :** (1) Question No. 1 is **compulsory** and in addition to this, solve any **three** questions from **rest** of questions.
(2) **Each** of questions carries **15** marks.
(3) Assume suitable **data** wherever **necessary**.
(4) Draw **figures** wherever **necessary**.

1. Solve any **five** of the following :—

(a) List :—

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- (i) the various sources of water pollution
(ii) common water pollutant.

(b) What is the role of Ministry of Environment and Forests ?

(c) Define and explain the term sustainable development.

(d) Explain in brief, what is food web.

(e) Explain scientifically the concept of Green building.

(f) List the conventional energy sources and state their limitations.

(g) Define the term Noise pollution and explain its sources as well as ill effects.

2. (a) Explain how the environmental resource water is depleting.

(b) Explain working of Venturi scrubber with help of neat sketch. 5

(c) Explain working of hydropower electricity plant with help of neat sketch. 5

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3. (a) Explain how a geothermal electricity plant works. Draw a neat and labelled schematic diagram for the same. 5

(b) Define any **five** of the terms from Environmental Protection Act, 1986 :—

(i) Environment

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(ii) Environmental pollutant

(iii) Environmental pollution

(iv) Hazardous substance

(v) Occupier

(vi) Handling

(vii) Prescribed.

4. (a) Explain various modes needed for public awareness to protect earth from environmental degradation. 5

(b) Explain the term "E pollution". What are its sources and ill effect ? 5

(c) State and explain working principle of flat plate collector used for solar energy. 5

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5. (a) What you mean by appropriate technology ? What is their criteria for selection ? **5**
(b) Write case study on Mina Mata disease in Japan. **5**
(c) Explain what is Indoor pollution. Give examples of such pollutants, state ill effects of them. **5**
6. (a) Write a case study on Tsunami and Earthquakes in Japan. **5**
(b) When one is setting up an industrial unit, what is the role of Environmental clearance consent and authorisation mechanism ? **5**
(c) Explain generation of electricity using wind energy, with help of neat and labelled sketch of wind Turbine. **5**
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