

Con. 9026-13.

(REVISED COURSE)

GX-10053

(2 Hours)

[ Total Marks : 60

- N.B. :** (1) Questions No. 1 is **compulsory**.  
 (2) Answer any **three** from Question Nos. 2 to 6.  
 (3) **Figures to right** indicate **full** marks.  
 (4) Draw neat diagrams wherever **necessary**.

1. Attempt any **five** from the following :-

15

- (a) With the help of suitable example explain the concept of food-web.
- (b) Why there is need for sustainable development ?
- (c) Explain briefly causes and effects of Ozone layer depletion.
- (d) Explain briefly the role played by Ministry of Environment and Forest in the conservation of environment.
- (e) Why more emphasis is given on the development of renewable energy resources ?
- (f) Explain the concept of 'Carbon Credit'.
- (g) What are the sources and effects of noise pollution?

2. (a) In what way appropriate technology can lead to better sustainable development. 5

(b) Draw suitable diagram and explain working of Bag House Filter. 5

(c) What is hydel energy? Explain briefly the process of hydropower generation. 5

3. (a) How Solid waste management can be carried out by landfilling ? 5

(b) Explain briefly the important features of environmental clearance and authorization mechanism. 5

(c) What role is played by the technology for better human health and environment ? 5

4. (a) Explain what are the reasons and impact of depleting nature of natural forest resources. 5

(b) What are the important functions and powers of Central Pollution Control Board ? 5

(c) Draw rough sketch and explain how electricity can be generated from wind energy. 5

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5. (a) In what way environmental education and awareness can help in sustainable development ? 5
- (b) Draw rough sketch and explain how flat-plate collector can be useful in tapping solar energy. 5
- (c) How E- pollution is caused? What are its adverse effects ? 5
6. (a) How disaster management techniques can be implemented in the event of Tsunami ? 5
- (b) Explain the global environmental crisis caused on account of growing population. 5
- (c) What are the reasons and effects of global Warming ? 5
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**(REVISED COURSE) QP Code : NP-17720**

( 2 Hours )

[ Total Marks : 60

- N.B. :** (1) Question No. 1 is **compulsory**.  
 (2) Answer any **three** questions from Q. Nos. 2 to 6.  
 (3) **Figures** to the **right** indicate **full** marks.  
 (4) Draw **neat diagrams** wherever **necessary**.

1. Attempt any **five** from the following :— 15
  - (a) Explain how energy flows in a food chain.
  - (b) Explain the classification of ecosystem.
  - (c) What is "Photochemical Smog" ?
  - (d) What is the role of Ministry of Environment and Forest ?
  - (e) What do you understand by "Geothermal Energy" ? Explain.
  - (f) Explain the concept of Green Building.
  - (g) What do you mean by "e-pollution" ?
2.
  - (a) Explain in detail the 3 Rs namely Reuse, Recovery and Recycle as control measures of sustainability. 5
  - (b) Write a case study on "Minamata disease". 5
  - (c) Draw a neat schematic diagram of Hydropower plant and brief its working. 5
3.
  - (a) Draw a neat and labelled diagram of "Venturi Scrubber" and explain its working. 5
  - (b) What type of Environmental clearances are required to set up and start an industrial unit ? 5
  - (c) Explain the concept of "Carbon Credit". 5
4.
  - (a) Discuss the global environmental crisis in brief.
  - (b) What are the general powers of the central government stated in chapter-II of Environmental protection Act 1986 ? 5
  - (c) What are the limitations of conventional sources of energy ? 5
5.
  - (a) How are utilization of resources is made as per the carrying capacity ? 5
  - (b) Explain solid waste management by "Land filling". 5
  - (c) What are the limitations of conventional sources of energy ? 5
6.
  - (a) Explain "Food chain" and "Food web". 5
  - (b) How ozone is getting depleted from the atmosphere ? Explain with chemical reactions. 5
  - (c) What is the role of technology w.r.t. environment and health ? 5

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42 : 1st half.13-AM(aa)

Con. 6916-13.

(REVISED COURSE)

GS-5238

(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 :—

15

(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

5

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

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(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.

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

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

5

energy.

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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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