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**H-7243**

**M.Sc. (Semester-IV) Examination, July 2022**

**ENVIRONMENTAL SCIENCE**

**( Emerging Environmental Problems  
and Current Trends )**

***Time Allowed : Three Hours***

***Maximum Marks : 70***

***Minimum Passing Marks : 28***

**Note :** Answer as directed and to the point. Answer questions from **all** units.

**UNIT-I**

1. Multiple choice type questions. **(Any five) :** [1×5=5]

(i) Which of these is not a GHG ?

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**( 1 )**

**[P.T.O.]**

- (a)  $\text{CO}_2$
  - (b)  $\text{CH}_4$
  - (c)  $\text{O}_3$
  - (d)  $\text{O}_2$
- (ii) Which is an emerging environmental crisis ?
- (a) Deforestation
  - (b) Global Warming
  - (c) Soil Erosion
  - (d) All of the above
- (iii) Which agreement ensured the reduction in consumption of ozone depleting substances (ODSs) ?
- (a) Kyoto Protocol
  - (b) Ramsar Convention
  - (c) Montreal Protocol
  - (d) Kigali Agreement

- (iv) Which of the following UNIT measures ozone concentration in ozone layer ?
- (a) ppm
  - (b) decibel
  - (c) Dobson
  - (d) ppb
- (v) Which of the below gases are found predominantly near agricultural field and responsible for global warming ?
- (a) Ozone
  - (b) Carbon-monoxide
  - (c) Methane
  - (d) Carbon-dioxide
- (vi) Which GHG has the highest Global Warming Potential (GWP) ?
- (a)  $\text{CO}_2$
  - (b)  $\text{O}_3$
  - (c)  $\text{H}_2\text{O}$
  - (d) None of the above

2. Fill in the blanks (**Any five**) : [1x5=5]

- (i) Ozone Hole was identified for the first time by \_\_\_\_\_.
- (ii) One of the most successful global environmental policies of the 20th century is \_\_\_\_\_.
- (iii) One of the main natural factors of the climate change is \_\_\_\_\_.
- (iv) The effect of climate change and global warming include \_\_\_\_\_.
- (v) The most abundant element on earth having highest calorific value is \_\_\_\_\_.
- (vi) The phenomenon of London Smog in \_\_\_\_\_ is a prominent example of aerosol pollution.

## UNIT - II

### ( Very Short Answer Type Questions )

3. Attempt **any ten** questions. [1x10=10]

- (i) What is Aerosol ?
- (ii) What is meant by Ecorestoration ?

- (iii) What is Smog ?
- (iv) What is GWP ?
- (v) When and where the 'Earth Summit' took place ?
- (vi) What is the unit to measure sound pollution ?
- (vii) Give an example of domestic rainwater harvesting technique.
- (viii) Define E-Waste.
- (ix) Give example of biomedical waste.
- (x) What is meant by rangeland ?
- (xi) Give example of rehabilitation of people due to large scale development project in India.
- (xii) Give example of clean-technology practised in India.

### **UNIT - III**

#### **( Short Answer Type Questions )**

4. Attempt **any five** questions. [4×5=20]

- (i) High-rise building as an environmental problem.
- (ii) Nuclear Winter-concept and prediction.
- (iii) Wasteland Reclamation.
- (iv) Green Technology.
- (v) E-Waste-Issues and Concerns.
- (vi) Biomedical Waste Management in India.

#### **UNIT - IV**

##### **( Essay Type Questions )**

4. Attempt **any three** questions. [3×10=30]
- (i) With a success story, explain in detail the concept of ecological restoration.
  - (ii) Explain in detail the role of information technology in environmental conservation.
  - (iii) Discuss the concept of ozone depletion and its impact on global climate.

- (iv) Discuss on the role of NGOs in environmental conservation. Name two national and two international level NGOs.
- (v) Explain the role of communities in conservation of natural resources.
- (vi) What are the different categories of Biomedical Waste ? How biomedical waste can be managed ? Write a note on management of biomedical wastes post COVID-19 pandemic.

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