

SUB : ENVIRONMENTAL SCIENCE

MARKS : 80

STD : X

TIME : 2 hrs

DATE : .1.08

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- Note : (i) All answers to be written in points.
(ii) Underline the key words or sentences.
(iii) No short forms to be used.
(iv) Differences to be written in columns.

SECTION A (40 marks)

Attempt all questions from this Section.

Question 1

State whether the following are True or False :

[10]

1. Fabric filters are more effective in removing small particles.
2. Nitrogen dioxide is produced when coal, coke or oil is burnt.
3. According to the World Bank report, the estimated reduction in HC (hydrocarbons) by the use of CNG is estimated to be 99%.
4. It was in Tanzania in 1874 when the first smoke ordinance was passed.
5. The idling emission limit for two wheeler and three wheeler Petrol driven vehicles shall not exceed one percent by volume.
6. The Northern countries feel that low population growth is the major cause for environmental degradation which is disputed by the South.
7. The unfair trading practices of the North is considered to be one of the major causes standing against both poverty alleviation and environmental protection.
8. Satellite remote sensing developed from airborne remote sensing in the 1980s and 1990s.
9. According to the U.S. Environmental Protection Agency, if all emissions of Carbon monoxide are stopped, it would take 200 years for the atmospheric nitrogen to return to the 1945 level.
10. The Climate Change Convention was held in Amsterdam at an event called the "Earth Summit" in June 1992.

Question 2

Give reasons :

1. Why are we confronting an episode of species extinction greater than anything ever seen for the past 65 million years ? [2]
2. Why is there an urgent need to adopt 'alternate technology' ? [2]
3. Why must our energy needs be satisfied through bio-gas, minor micro hydel [2]

Question 3

- a. Suggest any two alternatives to timber in the construction industry. [2]
- b. A sloping hill has been degraded by overgrazing, tree cutting and soil erosion. [2]
Give two important steps that can be undertaken to regenerate the land.
- c. Mention two ways in which Baranaj system is superior to monoculture. [2]
- d. What is meant by poverty alleviation. How can it be achieved ? [2]
- e. What are Genes and Gene banks. [2]

Question 4

- a. Explain one indeginus practice of agriculture that leads to soil erosion. [2]
- b. Define : (i) Bio-fertilizers (ii) Protected forests. [2]
- c. What is population density ? Mention any two consequences of higher population density. [2]
- d. Explain the difference between high forest system and Coppice system. [2]
- e. When is zero population growth achieved ? Name two countries that have reached this stage. [2]

SECTION B

Attempt any four questions from this Section.

Question 5

Answer in detail :

1. What are the international efforts underway to prevent damages due to 'Ozone Layer Depletion' ? [4]
2. What is the significance and need for Wildlife Management ? [4]
3. What are the necessary conditions for Sustainable Development ? [4]

Question 6

Write short notes on :

1. Why do we need global stability ? [2]
2. Why should scientific capabilities and infrastructure be strengthened ? [2]
3. What are the merits and demerits of extensive dam construction and power generation ? [2]
4. What happened at the 'Convention for Biological Diversity?' [2]
5. Write about satellite technology in context to ecological changes. [2]

Question 7

Answer the following :

1. Write in detail about the 'Role of Multinationals'. [4]
2. What are the views of the Developing the south) countries ? [3]
3. What legislative control for air pollution are there in England and United States ? [3]

Question 8

- a. What is Bio-technology ? Give 2 examples and state four reasons as to why the use of Bio-technology for food production has not been favoured by environmentalists. [6]
- b. Give the technical terms for the following definitions. [4]
- (i) Application of business methods and technical principles to the handling of wildlife and its habitat.
 - (ii) Methods by which crops constituting forests are tended harvested and replaced by new crops of distinctive forms.
 - (iii) The maintenance of a resource in its current condition.
 - (iv) The difference between maximum population and the minimum population in a given year.

Question 9

- a. How do unfair trade practices lead to environmental deterioration. [5]
- b. Write short notes on :
- (i) Trickle drip irrigation [3]
 - (ii) Role of women in conservation of Bio-diversity. [2]

Question 10

- a. What is Social mobilization ? Mention any four features of Social mobilization. [6]
Name an area where this is of prime importance and why ?
- b. "The process of Rural – Urban migration is more rapid in developing countries". [4]
With reference to this state –
- (i) Two factors that are responsible for migration to Urban areas.
 - (ii) In what way will the rural-urban migration affect life in the city ?
