

ENVIRONMENTAL SCIENCE

Maximum Marks: 80

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

*You will **not** be allowed to write during the first 15 minutes.*

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

*Attempt **all** questions from Section A and **any four** questions from Section B.*

The intended marks for questions or parts of questions are given in brackets [].

SECTION A (40 Marks)

*(Attempt **all** questions from this Section.)*

Question 1

[16]

Choose the correct answers to the questions from the given options.

(Do not copy the questions, write the correct answers only.)

- (i) Core and buffer zone is present in:
- (a) National Parks
 - (b) Botanical Gardens
 - (c) Biosphere Reserves
 - (d) Sanctuaries
- (ii) Catalytic converter in vehicles is used for controlling:
- (a) Soil pollution
 - (b) Air pollution
 - (c) Water pollution
 - (d) Noise pollution

This paper consists of 7 printed pages and 1 blank page.

- (iii) The species of animals which are at *high risk* of endangerment in the wild are called:
- (a) Vulnerable species
 - (b) Rare species
 - (c) Extinct species
 - (d) Critically endangered species
- (iv) The Ramsar Convention, 1971, an International Treaty was held for the conservation of:
- (a) Soil
 - (b) Forests
 - (c) Threatened species
 - (d) Wetlands
- (v) The agency that regulates International Trade is:
- (a) IMF
 - (b) WTO
 - (c) World Bank
 - (d) GEF
- (vi) The energy generated from the earth is called:
- (a) Tidal energy
 - (b) Wind energy
 - (c) Geothermal energy
 - (d) Solar energy

- (vii) _____ was the movement started by village women to save the trees.
- (a) Greenery Development Project
 - (b) Beej Bachao Andolan
 - (c) Chipko Movement
 - (d) Green Revolution
- (viii) Growing of two or more crops in the same field is called:
- (a) Monoculture
 - (b) Intercropping
 - (c) Inter-varietal cropping
 - (d) Intracropping
- (ix) The main aim of secondary cities is to reduce:
- (a) Tourism
 - (b) Congestion
 - (c) Consumption
 - (d) Cooperation
- (x) Deforestation does not cause:
- (a) Global warming
 - (b) Soil erosion
 - (c) Loss of forest cover
 - (d) Basin listing
- (xi) _____ helps people to understand the need for controlling population.
- (a) Education
 - (b) Superstition
 - (c) Sanitation
 - (d) Urbanisation

- (xii) Which of the following is not an ingredient of vehicular pollution?
- (a) Nitrogen oxides
 - (b) Carbon monoxide
 - (c) Sulphur dioxide
 - (d) LPG
- (xiii) Global food imbalance is due to:
- (a) Over cultivation
 - (b) Monocropping
 - (c) Crop rotation
 - (d) Inequality in distribution of surplus produce
- (xiv) GEF work focuses on:
- (a) Biodiversity
 - (b) Climatic change
 - (c) Land degradation
 - (d) All of the above
- (xv) Kerosene as a desirable cooking fuel is:
- (a) Inefficient
 - (b) Non polluting
 - (c) Unsafe
 - (d) Not available easily
- (xvi) Terrace farming is an effective method of soil conservation in the:
- (a) Plains
 - (b) Deserts
 - (c) Hills
 - (d) Delta

Question 2

- (i) Mention *any two* man-made causes for the loss of biodiversity. [2]
- (ii) State *two* advantages of High Yield Variety seeds. [2]
- (iii) Mention *one* advantage and *one* disadvantage of sewage sludge. [2]
- (iv) *Remote sensing satellites are effective in environmental protection.* [2]
Give *two* reasons in support of your answer.

Question 3

- (i) Expand 'CITES'. [2]
Mention its significance.
- (ii) Mention *two* benefits of Integrated Rural Development. [2]
- (iii) What is alternate technology? [2]
State *one* benefit of alternate technology.
- (iv) How can public transport system help to safeguard our environment? [2]

Question 4

- (i) Give *one* difference between Polyvarietal cultivation and Polyculture. [2]
- (ii) What is mulching? [2]
- (iii) Mention *two* ways in which activities of MNCs can be monitored in developing countries. [2]
- (iv) Give *two* impacts of growing population on land. [2]

SECTION B (40 Marks)

(Attempt **any four** questions from this Section.)

Question 5

- (i) What is Integrated Pest Management? [5]
State *any three* of its importance in sustainable agriculture.
- (ii) What is overgrazing? [5]
Give *any four* hazards of overgrazing.

Question 6

- (i) “In most cities increasingly CNG is used as a fuel in vehicles.” [5]
Give *five* appropriate reasons for your answer.
- (ii) What is composting? [5]
Mention *any three* of its advantages.

Question 7

- (i) Mention *three* advantages and *two* disadvantages of hydroelectricity. [5]
- (ii) What is Zoning? [5]
Mention *four* ways in which Taj Trapezium is an instance of Zoning.

Question 8

- (i) Define International Trade. [5]
Mention *three* ways in which International Trade can reduce global inequalities and thereby help the developing nations.
- (ii) What is Trickle Drip Irrigation? [5]
Mention *two* advantages and *two* disadvantages of Trickle Drip Irrigation.

Question 9

- (i) What is energy plantation? [5]
List *any four* advantages.
- (ii) What is Conservation Tillage? [5]
Mention *three* advantages of Conservation Tillage.

Question 10

- (i) What is Mixed Cropping? [5]
State *any two* advantages and *any two* disadvantages of Mixed Cropping.
- (ii) “Growth of slums is a common feature of urbanisation.” [5]
State *five* disadvantages of the growth of slums.