2023

QUESTION PAPER

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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

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(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

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(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

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(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

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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]

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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.

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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.

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