
ENVIRONMENTAL SCIENCE

(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

- (a) What is the source of hydrocarbons? How can hydrocarbons be controlled? [2]
- (b) What is 'Demographic transition'? [2]
- (c) How can private enterprises contribute towards city improvement? [2]
- (d) What are the *two* causes of overgrazing? [2]
- (e) Why is biotechnology used in agriculture? [2]

Question 2

- (a) What are the main reasons for depletion of wildlife? [2]
- (b) State *two* limitations of biomass as an energy resource. [2]
- (c) Distinguish between biodegradable and non-biodegradable waste. [2]
- (d) Define a multinational corporation. Give the primary objective of an MNC. [2]
- (e) Suggest *two* alternative technologies to create a self-sustaining society. [2]

Question 3

- (a) Give *one* advantage and *one* disadvantage of a four-stroke engine. [2]
- (b) Suggest *two* strategies adopted by a developing country like India for controlling population. [2]
- (c) State *two* impacts on rural areas if migration does not take place [2]

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- (d) State *two* vegetative means of soil conservation. [2]
(e) Give *two* harmful effects of large farm units on the environment. [2]

Question 4

- (a) Define the term 'Habitat'. [2]
(b) What do you understand by composting? [2]
(c) What is the Kyoto protocol? State its main objective. [2]
(d) Give *two* advantages of conservation tillage. [2]
(e) Name an alternate fuel that is in liquid form. Give *one* advantage of using it. [2]

SECTION B (40 Marks)

Answer any four questions from this Section

Question 5

- (a) What measures can be taken to improve traffic circulation? [5]
(b) What is soil erosion? Explain *two* direct and *two* indirect effects of soil erosion. [5]

Question 6

- (a) What do you understand by Social Mobilisation? Mention *four* of its features. [5]
(b) When did the Chernobyl disaster occur? State the harmful effects caused by the radioactive pollution in the Chernobyl disaster. [5]

Question

- (a) State *four* measures adopted to strengthen rural-urban linkages. How are they beneficial to the farming community? [5]
(b) What is understood by In situ Conservation of our genetic resources? Explain *two* of its advantages and disadvantages. [5]

Question 8

- (a) What are sanitary landfills? Explain how they can be made secure. [5]
- (b) Define sustainable development? Explain its major objectives. [5]

Question 9

- (a) State *two* ways in which the objectives of Economic development can be achieved. Explain *three* of its effects that lead to Environmental degradation. [5]
- (b) How does the system of trickle drip irrigation operate? [5]

Question 10

- (a) Explain the efforts required to conserve our energy resources for a sustainable future. [5]
- (b) What does GBCF stand for? State its environmental benefits. [5]