
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) Give *two* reasons why cooking gas is considered to be a better fuel than kerosene oil or wood. [2]
- (b) State *two* modifications in the design of an engine that have not only improved the efficiency of the engine but has also reduced pollution. [2]
- (c) State *two* advantages associated with the development of small scale industries. [2]
- (d) State *two* reasons for the melting of the Gangotri Glacier. [2]
- (e) State any two provisions given in the Wildlife (Protection) Act, 1972 to protect Indian Wildlife. [2]

Question 2

- (a) State *two* objectives of the integrated rural development programme. [2]
- (b) List any *two* recommendations of the National forest policy. [2]
- (c) Suggest *two* strategies to dispose solid waste. [2]
- (d) What is Gasohol? Give a reason for its present popularity in some countries. [2]
- (e) List *two* reasons leading to the decrease in the level of the water table in Delhi. [2]

Question 3

- (a) *Nuclear fusion in the near future will solve the problem of energy. State one advantage and one disadvantage associated with nuclear fusion.* [2]
- (b) Explain the role of satellites in environment protection and management. [2]
- (c) Mention *two* economic policy measures to control pollution. [2]
- (d) State *two* reasons for the rapid extinction of species in the ocean. [2]
- (e) Why is it important to maintain a buffer zone around a forest? [2]

Question 4

- (a) State two objectives of the Global Environmental Facility support. [2]
- (b) State any *two* factors that affect the population of a particular place. [2]
- (c) State *two* objectives of Project Tiger. [2]
- (d) Mention *two* characteristics of fertile soil. [2]
- (e) State *two* ways as to how the use of pesticides impacts the ecology. [2]

SECTION B (40 Marks)

Answer *any four* questions from this Section

Question 5

- (a) *Secondary cities can play an important role to counter the problem of Migration. Justify the statement giving reasons.* [5]
- (b) Enumerate the effects of an increasing population on the environment. [5]

Question 6

- (a) How can land use management help conserve soil? [5]
- (b) What is energy plantation? State *three* characteristic of plants that can be grown for this purpose. [5]

Question 7

- (a) What are Gene Banks? State *three* objectives to maintain a Gene Bank. [5]
- (b) What is conservation tillage? State *two* advantages and *two* disadvantages of conservation tillage. [5]

Question 8

- (a) *China has legalized breeding of tigers for reaping economic benefits.*
Justify with reasons for or against the statement. [5]
- (b) What is meant by biodiversity? Explain the reasons for loss of biodiversity. [5]

Question 9

- (a) What are non conventional sources of energy? Explain giving examples how these can help to sustain the environment. [5]
- (b) Explain the meaning of integrated nutrient supply programme. State its objectives. [5]

Question 10

- (a) Explain the role of Biotechnology in achieving global food security. [5]
- (b) With the help of an example, explain how alternate technology can create a self sustaining society. [5]