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ICSE Specimen 2011 Environmental Science

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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]