

ENVIRONMENTAL SCIENCE

(Three hours)

Maximum Marks: 70

(Candidates are allowed additional 15 minutes for **only** reading the paper.

They must **NOT** start writing during this time.)

Answer **Question 1** (compulsory) from **Part I** and **five** questions from **Part II**, choosing **at least one** question from each of the Sections **A, B** and **C**.

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

PART I (20 Marks)

Answer **all** questions.

Question 1

[10×2]

- (i) What is *eco-feminism*? Who coined the term *eco-feminism*?
- (ii) What kind of life strategy is adopted when the organisms choose to live on in an environment that is unstable? Give *any two* characteristics of these organisms.
- (iii) Give *any two* examples of ex-situ conservation. List *any two* disadvantages of this method.
- (iv) What is *mixed farming*? Give *any two* advantages of mixed farming.
- (v) Give *any two* features of new urbanism.
- (vi) Give *any two* causes for excessive vehicular pollution.
- (vii) Name *any two* objectives of the Basel Convention.
- (viii) Give *any two* disadvantages of the more sophisticated micro-irrigation systems.
- (ix) Explain in brief the basic principle underlying the *physical accounting systems*.
- (x) Give the full forms of:
 - (a) AOA
 - (b) TRIMS

PART II (50 Marks)

Answer *five* questions in all, choosing at least *one* question from each of the Sections A, B, and C.

SECTION A

Question 2

- (a) State Malthus' Theory of Population. Explain the two ways by which the population is kept under check. Give *two* reasons why Malthus' Theory has been criticized. [6]
- (b) Discuss how empowerment of women affects population growth. [4]

Question 3

- (a) Write a short note on WWF. [6]
- (b) Discuss *any two* achievements and *any two* failures of the Project Tiger. [4]

Question 4

- (a) What is sustainable development? Where was the term first used? Explain *any three* basic principles of sustainable development. [6]
- (b) What is meant by *demographic transition*? Explain the first three stages of demographic transition. [4]

SECTION B

Question 5

- (a) What are the *three* basic principles of Green Revolution? Discuss *any three* problems arising from Green Revolution. [6]
- (b) Discuss *any four* features of the Food Security Law 2013. [4]

Question 6

- (a) Discuss *any six* ways in which migration affects rural and urban areas. [6]
- (b) Explain how Curitiba is different from most other cities in the world. [4]

Question 7

- (a) Give the full form of DEWATS. What are the four systems on which the working of the DEWATS is based? Give *any two* advantages of DEWATS. [6]
- (b) Discuss in detail *any four* techniques by which the fertility of the soil can be maintained [4]

SECTION C

Question 8

- (a) Discuss *any three* ways of classifying natural resources. Support your answer with suitable examples. [6]
- (b) Explain in detail the classification of eco-system services. [4]

Question 9

- (a) What is GDP? Give *any four* advantages and disadvantages of GDP. [6]
- (b) What is protectionism? Give *two* disadvantages of protectionism. [4]

Question 10

- (a) What is free trade? Discuss its advantages and disadvantages. [6]
- (b) What are the ill effects of ozone layer depletion? [4]