ENVIRONMENTAL SCIENCE PAPER 1 (THEORY)

(Maximum Marks: 70)

(Time allowed: Three hours)

(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

[2] of [2]
of [2]
[2]
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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

Que	stion 2	
(a)	What is WWF? List the goals and strategies put forth by WWF.	[6]
(b)	What is <i>social forestry?</i> Mention <i>any four</i> types of social forestry. How does it differ from Joint Forestry Management?	[4]
Que	stion 3	
(a)	What are <i>life strategies?</i> State their types. Mention <i>any four</i> characteristics of each of the types stated by you.	[6]
(b)	Discuss four indicators of water quality and give one significance of each of them.	[4]
Que	stion 4	
(a)	What are the different techniques of monitoring air quality of a place? Discuss briefly <i>any two</i> of the methods.	[6]
(b)	'Women empowerment can bring about a major change in human population'. Discuss.	[4]
	SECTION B	
Que	stion 5	
(a)	What are the pull and push factors of urbanization? Explain <i>any four</i> negative impacts of urbanization.	[6]
(b)	Discuss urban development planning and traffic management methods used in Curitiba.	[4]
Que	stion 6	
(a)	Discuss the different types of irrigation systems. Explain <i>any four</i> advantages and <i>any four</i> disadvantages of each type.	[6]
(b)	What is a <i>dry toilet?</i> How does it work?	[4]

Question 7

- (a) Discuss the problems related to food security in the third world countries. Give [6] any two solutions to tackle these problems.
- (b) Mention *any eight* main features of the Food Security Law 2013. [4]

SECTION C

Question 8

- (a) What is meant by defensive expenditure? Explain its purpose and importance. [6]
- (b) What is *ozone layer?* How does it get depleted? State *any two* steps taken to **[4]** control ozone layer depletion.

Question 9

- (a) Differentiate between *free trade* and *protectionism*. State *any two* advantages [6] and *any two* disadvantages of each.
- (b) State the *two* types of externalities. Give *two* examples of each type. [4]

Question 10

- (a) What is meant by *Cost Benefit Analysis*? Mention *any three* advantages and *[6] two* disadvantages of Cost Benefit Analysis.
- (b) Discuss the case study of aquaculture in India to understand the impact of free trade. [4]