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

` /	Name <i>any two</i> ways by which a country can acquire carbon credits.	[2]
(ii)	Give any two ways to achieve local self-sufficiency.	[2]
(iii)	What is meant by ecological <i>foot print?</i>	[2]
(iv)	Differentiate between copyright and trade secret.	[2]
(v)	Distinguish between the two schools of thought based on Marx's view on environment.	[2]
(vi)	Give <i>any two</i> examples of ex-situ conservation. Also, name <i>any two</i> biosphere reserves of India.	[2]
(vii)	Name any four types of traditional rain water harvesting systems.	[2]
(viii)	Explain briefly any two biological indicators of soil quality.	[2]
(ix)	What are bio-fertilizers? Give any two examples of bio-fertilizers.	[2]
(x)	Give two ways by which women's employment regulates population.	[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

Question 2

- (a) What is *Greenpeace?* What is its mission statement? When and where was it founded? Give *four* main objectives of the organization.
- (b) Briefly explain Barry Commoner's Laws of Ecology. [4]

Question 3

- (a) Define *water pollution*. Name *any four* sources of water pollution. Discuss [6] how the quality of water can be indicated by each of the following:
 - (i) pH level
 - (ii) Electrical conductivity
 - (iii) Turbidity
 - (iv) Temperature
- (b) Which Act was passed by the Government to safeguard the relationship between the tribal communities and their surroundings? Enumerate *any three* rights safeguarded by this Act.

Question 4

- (a) What is meant by the *age structure* of a population? Discuss *any four* factors that have an impact on the birth rate of the population. [6]
- (b) Discuss the *two* types of population growth curve. Illustrate your answer with a suitable graphical representation. [4]

SECTION B

Question 5

- (a) What is meant by *new urbanism?* Discuss *any four* features of new urbanism. [6]
- (b) What is *mono-cropping?* Give *three* advantages and *three* disadvantages of [4] mono-cropping

2

Question 6

- (a) How was *colonial agriculture* different from *pre-colonial agriculture?* Discuss *three* negative impacts and *two* positive impacts of colonial agriculture.
- (b) Discuss *any four* reasons why a different approach is needed to ensure food security in the Third World Countries. [4]

Question 7

- (a) Write a short note on Cuba a sustainable country. [6]
- (b) Explain in detail *any four* ways by which sustainability can be attained in the field of agriculture. [4]

SECTION C

Question 8

- (a) What is meant by *Globalization?* Discuss *any six* advantages of globalization. [6] Also, give four impacts of globalization on the environment.
- (b) 'TNCs have a detrimental effect on the environment'. Justify this statement by discussing *any four* ways in which TNCs play a negative role.

Question 9

- (a) What is *Cost-benefit analysis?* Give *three* advantages and *three* disadvantages [6] of Cost-benefit analysis.
- (b) Which trade was banned by CITES in 1989? Discuss *any three* effects of this ban. [4]

Question 10

- (a) What is meant by *ecosystem services?* Classify the ecosystem services and explain *any two* in detail. [6]
- (b) Mention *any four* ozone depleting substances and give *one* source for each one [4] of them. Also, give *four* impacts of ozone depletion.

3