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

(i)	Mention <i>two</i> disadvantages of macro irrigation.			
(ii)	Who coined the term <i>deep ecology</i> and when?			
(iii)	Diffe	rentiate between <i>insitu</i> and <i>exsitu</i> methods of wildlife conservation.	[2]	
(iv)	With	reference to urban environment, mention any two problems and their solutions.	[2]	
(v)	Diffe	rentiate between immigration and emigration.	[2]	
(vi)	Mention any two advantages of Physical Accounting.			
(vii)	Write the full form of each of the following:			
	(a)	CNG		
	(b)	GATT		
(viii)	Class	fy natural resources based on their origin and distribution.	[2]	
(ix)	Explain the terms:			
	(a)	Industrial design		
	(b)	Patents		
(x)	Ment	on any four factors regulating population size of an area.	[2]	

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)	Write a short note on Gary Snyder.				
(b)	What is meant by a <i>survivorship curve?</i> survivorship curves.	Explain the <i>three</i> shapes of	[4]		
Question 3					

(a) What is Joint Forestry Management? State its objectives.

(h)	Write a short note on Earth First.	[4]	1
- (I	vj	while a short hole on Earth Flist.	4	L

[6]

Question 4

(a)	What is NAMP?	Discuss <i>any five</i> objectives of this programme.	[6]
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(b) Discuss the basic Gandhian approach for rural development. How would you [4] contrast Gandhian approach with the present growth paradigm?

SECTION B

Question 5

(a)	Discuss the adoption of sustainable management of traffic in Bogota.				
(b)	Discuss the successes and failures of Project Tiger. Support your answer	[4]			

Question 6

giving reasons.

(a)	Define population.	Explain any three	factors that	affect the	birth rate and any	[6]
	two factors that affe	ect the death rate in	human popu	ulation.		

(b) "Deforestation is a major problem in Amazonian rain forests". Discuss *any* [4] *four* solutions to control this problem.

Question 7

(a)	What is WTO? Discuss <i>any two</i> principles and <i>any three</i> functions of WTO.	[6]
(b)	Explain the different zones of the biosphere reserves.	[4]

SECTION C

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(a)	Explain any six ecological impacts of Green Revolution.			
(b)	What is meant by IPM? Discuss any three ways by which IPM is implemented.	[4]		
Quest	tion 9			
(a)	Describe the physical indicators of soil quality.	[6]		
(b)	Write a short note on Bamako Convention.	[4]		
Quest	tion 10			
(a)	What is meant by <i>natural capital</i> ? Why do we need to preserve it? Discuss <i>four</i> ways to regenerate natural capital.	[6]		
(b)	Explain any four steps to reduce vehicular pollution.	[4]		

Question 8
