

[This question paper contains 3 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **5117** **I**

Unique Paper Code : 2924000024

Name of the Paper : Environmental Economics and Climate Change

Name of the Course : **GE**

Semester : II/IV/VI/VIII

Time : 3 Hours **Maximum Marks : 90**

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
- (b) Attempt any **five** questions.
- (c) **All** questions carry equal marks.
- 1. (a) Explain the guiding principles of the National Action Plan on Climate Change (NAPCC) and how they balance economic growth with ecological sustainability.
- (b) Describe the provisions of the Montreal Protocol that differentiate between developed and developing nations in phasing out ozone-depleting substances.

(9+9=18)

P.T.O.

2. What is the Environmental Kuznets Curve (EKC)? Explain its hypothesized shape and the theoretical reasoning behind it. Discuss the conventional, pessimistic, and optimistic views of the EKC. What are the policy implications if the EKC hypothesis holds true? 18
3. (a) Discuss the economic and social costs of climate change in India.
(b) Explain the role of the Intergovernmental Panel on Climate Change in global climate governance. 9+9=18
4. Explain the causes and impacts of climate change and discuss major international agreements addressing it such as the Kyoto Protocol, Paris Agreement, and Montreal Protocol. 18
5. (a) Examine the major anthropogenic causes of climate change and their impact on the environment.
(b) Discuss the role of international conferences such as the 1992 Rio Earth Summit and Agenda 21 in establishing a global framework for sustainable development. 9+9=18

6. (a) Discuss global environmental objectives such as environmental quality, sustainability, and biodiversity conservation.
(b) Critically evaluate India's position on International Climate Negotiations. (9+9=18)
7. Using the materials balance model, explain how the natural environment acts both as a source of inputs and a sink for residuals in the economic process. What are the implications of the first and second laws of thermodynamics for the long-term sustainability of economic activity? How does this framework motivate the study of environmental economics? (9+9=18)
