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6. Evaluate international climate change policies, including the Clean Development Mechanism, carbon credits, and global agreements. (15)

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5806 K

Unique Paper Code : 2182012302

Name of the Paper : Atmosphere & Global Climate Change (DSC-EVS-8)

Name of the Course : **B.Sc. (H) Environmental Sciences**

Semester : III

Duration : 2 Hours Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **four** questions.
3. All questions carry equal marks.

P.T.O.

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1. Write short notes on **any three** of the following:

(5×3=15)

(a) Layers of the atmosphere

(b) Urban heat island and microclimate

(c) Smog and its types

(d) Southern Oscillation Index

2. Differentiate between **any three** of the following:

(5×3=15)

(a) Western disturbances vs. tropical cyclones

(b) Plume rise vs. mixing height

(c) Holocene monsoon vs. present-day monsoon

(d) Temperature vs. atmospheric stability

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3. (a) Describe the development and variability of the

Indian monsoon. (10)

(b) What is the impact of monsoon changes on the

Indus Valley civilization? (5)

4. (a) Explain the chemistry of photochemical smog

formation. (10)

(b) What roles do hydroxyl and hydroperoxyl radicals

play in atmospheric cleansing? (5)

5. (a) Summarize the climate change indicators from

Earth's paleoclimatic records. (10)

(b) What are the biological responses to global

warming? (5)

P.T.O.