

Printed Pages : 2



EEV021

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 197654

Roll No.

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B. Tech.

(SEM. VI) THEORY EXAMINATION, 2014-15
SCIENCE AND POLICY OF CLIMATIC CHANGE

Time : 2 Hours]

[Total Marks : 50

Note : Attempt **all** questions.**1 Attempt Any Two of the following : 2×7**

- (a) Differentiate between climate and weather. Briefly discuss the factor affecting the climate of the earth
- (b) Define sensible heat, latent heat and Albedo. Write the values of albedo of following surfaces-
 - (i) Fresh Snow (ii) Dry sand (iii) Tropical Forest
 - (iv) Earth's average albedo
- (c) Define radiative forcing and climate sensitivity. With a suitable flow diagram show the linkage of radiative forcing with climate change process.

2 Attempt Any Two of the following : 2×6

- (a) Why do we turn to paleoproxy measurements to infer the temperature of millions of years ago? List four such paleoproxy indicators.

- (b) What is Hurricane? Categorize hurricanes based on their wind speed.
- (c) Describe briefly typical hurricane season. Define hurricane frequency, intensity and activity.

3 Attempt Any Two of the following : 2×6

- (a) What is UNFCCC ? When and where it was signed?. What is it aimed for?
- (b) What do you understand by "common but differentiated responsibilities" and "polluter pays principle".
- (c) What do you understand by Carbon Credit. Describe the following (i) Assigned Amount Unit (AAU) (ii) Certified Emission Reduction (iii) Emission Reduction Unit

4 Attempt Any Two of the following 2×6

- (a) Briefly describe the current Climate Laws
- (b) List down the federal action on climate change and clean energy
- (c) What do you understand by SO₂ and CO₂ cap and trade program. What are the limitations of SO₂ cap and trade program ?
