

--	--	--	--	--	--	--	--	--	--

B. TECH.
THEORY EXAMINATION (SEM–VI) 2016-17
SCIENCE AND POLICY OF CLIMATE CHANGE

Time : 3 Hours

Max. Marks : 100

Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.

SECTION-A

1 Attempt all of the following: (10×2=20)

- a) What do you mean by climate change?
- b) Define the term energy balance.
- c) Define the term greenhouse effect.
- d) What are greenhouse gases?
- e) Discuss the influence of greenhouse gases on models in short.
- f) Discuss the Polar model in short.
- g) What are the different type of circulation model?
- h) Write down short note on radiation.
- i) Compare Hadley and Polar model in short.
- j) Define the term emissivity.

SECTION-B

2 Attempt any five of the following: (10×5=50)

- a) Write down a note on the nature of storms. Explain the cyclones and hurricanes?
- b) Explain the paleo indicator of climate change.
- c) Discuss the effect of storm generation on ecosystem.
- d) What are the expected changes in nature of storm with warming?
- e) Explain the effect of global warming.
- f) Discuss the brief history of climate change.
- g) Define the global warming. Discuss the quantitative analysis of climate change.
- h) Discuss the different type of cyclones.

SECTION-C

Attempt any two of the following: (15×2=30)

- 3 Discuss the role of U.N. regarding climate change.
- 4 What are mission of IPCC? Discuss the internationally adopted emissions restrictions.
- 5 Discuss the active federal legislation on climate change.