

P.G. 1st Semester-2017

GEOGRAPHY

Paper : MGEOCCT-102

Full Marks : 40 Time : 2 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer four questions, selecting one from each Unit.

Unit-I

(Atmospheric Processes)

1. Differentiate heat budget from heat balance. Explain energy budget of the earth atmospheric system in the context of global warming. 3+7=10
2. Explain vertical distribution of temperature in atmosphere with illustration. Elucidate the mechanism of global circulation of wind. 3+7=10

(Condensation and Precipitation)

3. Discuss the role of water vapour in atmosphere. Write a short note on the process of condensation. 6+4
4. Distinguish between diabatic and adiabatic lapse rate. Explain the weather conditions associated with different forms of adiabatic lapse rate. 3+7=10

Unit-III

(Weather Disturbances and Forecasting)

5. State the weather conditions of ITCZ. Illustrate on the mechanism of tropical cyclone formation with suitable illustrations. 2+8=10
6. Explain different methods of weather forecasting with suitable examples. Why is short-term forecasting important? 8+2=10

Unit-IV

(Classification and Applied Issues)

7. Discuss the world classification of climate according to Thornthwaite, 1948. What is cloud burst? 7+3=10

 8. Name the main agro-climatic regions of India. Point out the climatic changes occurred during the geological time scale. 3+7=10
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