

P.G. 1st Semester - 2018**GEOGRAPHY****(Climatology)****Paper : MGEOCCT102**

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. Distinguish Climatology from Meteorology. Distinguish between scattering and diffusion. Briefly describe primary climatic system of the Earth.
2+2+6=10
2. What are the controlling forces of wind motion? Describe the terrestrial heat budget with suitable diagrams.
3+7=10

Unit-II**(Condensation and Precipitation)**

3. Bring out the relation between jet stream and onset of monsoon over Indian Subcontinent. Briefly explain the mechanism of ENSO phenomena.
3+7=10
4. Discuss the role of water vapour in atmosphere. Write a brief note on global water balance.
3+7=10

Unit-III**(Weather Disturbances and Forecasting)**

5. Distinguish fronts from ITCZ. Illustrate the mechanism and effect of tornado.
3+7=10
6. Mention two climatic hazards with its causes of origin. Briefly discuss the statistical technique of weather forecasting.
6+4=10

Unit-IV**(Classification and Applied Issues)**

7. Discuss different agro-climatic regions of India. Why does cloud burst occur?
8+2=10
8. What are urban heat islands? Elucidate the event of climate change occurred in different geological time periods.
3+7=10

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149/Geog

[2]