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**MGS 454**

**Second Semester M.Sc. Degree Examination, September/October 2022**  
**MARINE GEOLOGY**  
**(CBCS)**  
**Meteorology and Climatology**

Time : 3 Hours

Max. Marks : 70

***Instruction*** : Answer ***all*** the questions.

I. Define/State the following :

**(10×1=10)**

- 1) Meteorology
- 2) Precipitation
- 3) Geostrophic winds
- 4) Jet streams
- 5) Cloud burst
- 6) Meteorological hazards
- 7) Green house gases
- 8) Climatology
- 9) Pollution
- 10) Cyclones.

II. Write short notes on **any five** of the following :

**(5×4=20)**

- 11) Significance of Meteorology
- 12) Earth's Radiation balance
- 13) Land-sea breezes
- 14) Thunder storms
- 15) Causes for climate variation
- 16) Climate modeling
- 17) Floods
- 18) Climatic zones of India.

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III. Answer **any four** of the following :

**(4×5=20)**

- 19) Explain coupled ocean-atmosphere system.
- 20) Describe general weather system of India.
- 21) Discuss the utilities of Satellite in meteorology.
- 22) Explain climatic variations due to solar output.
- 23) Explain seasonal variations in the temperature.
- 24) Explain the distribution of precipitation over India.

IV. Answer **any two** of the following :

**(2×10=20)**

- 25) a) Explain the Global Monsoon system in detail.

OR

- b) Discuss weather monitoring and describe in detail weather modifications.

- 26) a) Give a detailed note on the intergovernmental panel on climate changes.

OR

- b) Give a detailed explanation on the classification of continental and oceanic climates.
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