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Name: .....

Reg.No: .....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P GEL3 E01A - CLIMATOLOGY**

(Applied Geology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

Answer any *four* questions. Each question carries 2 weightage.

1. Represent prime meridian and Equator in the globe.
2. Describe geostrophic wind.
3. Define Advection inversion.
4. Define Air mass.
5. Define frontogenesis and frontolysis.
6. Describe Bergeron process.
7. Describe cyclones of Arabian Sea.

**(4 × 2 = 8 Weightage)**

**Part-B**

Answer any *four* questions. Each question carries 3 weightage.

8. Discuss Rotation Revolution and Obliquity.
9. Explain Land and mountain breeze.
10. Explain Rossby waves and jet streams.
11. Describe Fog and Mist.
12. Explain High level clouds.
13. Explain different type of Air mass thunderstorms.
14. Explain the origin of temperate cyclones.

**(4 × 3 = 12 Weightage)**

**Part-C**

Answer any *two* questions. Each question carries 5 weightage.

15. Discuss on the structure and composition of the atmosphere.

16. Explain Koppen's classification.
17. Explain atmospheric lapse rates and stability.
18. Explain the formation and structure of tropical cyclones.

**(2 × 5 = 10 Weightage)**

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