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M.A. / M.Sc.

GEOGRAPHY

**Gg - 102 : Principles of Climatology
(2008 Pattern) (Semester - I) (Credit System)**

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) Attempt any four questions.*
- 2) All questions carry equal marks.*
- 3) Use of map stencils is allowed.*

Q1) What are auroras? Elaborate ionosphere and explain vertical variations in the composition of atmosphere.

Q2) State the difference between heat and temperature, and explain the factors that control horizontal distribution of temperature over the earth's surface.

Q3) Discuss various factors affecting air pressure.

Q4) What is Jet stream? Explain its effects on the surface weather condition.

Q5) Describe various types of lapse rate and explain conditional instability.

Q6) Give an account of the source regions of air masses.

Q7) Write notes on any two:

- a) Tropical Climatology.
- b) Albedo.
- c) Methods of weather forecasting.

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