

MA / M.Sc. GEOGRAPHY
FIRST SEMESTER
APPLIED CLIMATOLOGY
MGE – 103

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration : 1.30 hrs.

Full Marks : 35

(Objective)

Time: 15 min.

Marks: 10

Choose the correct answer from the following:

1X10=10

1. Normal Lapse rate is supposed to be
 - a. 6.5° C per 1000 m
 - b. 6.5° K per 1000 m
 - c. 6.5° C per 100 m
 - d. 6.5° K per 100 m
2. The average height of the troposphere over the poles is around
 - a. 16 km
 - b. 14 km
 - c. 8 km
 - d. 6 km
3. The position when the earth is nearest to the sun is called
 - a. Insolation
 - b. Perihelion
 - c. Aphelion
 - d. Revolution
4. The portion of incident radiation energy reflect back from the surface is called
 - a. Heat Budget
 - b. Photons
 - c. Absorption
 - d. Albedo
5. Tropical rainforest (wet) climate is represented by
 - a. Aw
 - b. Am
 - c. BSk
 - d. Ar
6. Am refers to the
 - a. Tropical monsoon climate
 - b. Mid-latitude desert climate
 - c. Temperature oceanic climate
 - d. Subtropical humid climate
7. Who among the following presented a new concept of climatic classification in 1948 and termed it as "Potential Evapo-Transpiration"?
 - a. Trewartha
 - b. Thornwaite
 - c. Koeppen
 - d. Thornburry
8. Doldrum is a zone of
 - a. Intertropical convergence
 - b. Local wind
 - c. Intertropical divergence
 - d. Frontolysis
9. Horse latitude is found between the latitudes
 - a. 5° N to 5° S
 - b. 30° - 45° in both the hemisphere
 - c. 25° - 35° in both the hemisphere
 - d. None of the above

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Briefly explain about the heat budget of the earth. 5

2. What do you mean by planetary wind? Briefly explain different wind belts. 2+8=10

3. Discuss the factors controlling the distribution of temperature. 10

4. Explain briefly Koppen's classification of world climates. Mention the difference between Koppen's and Thornwaite's climatic classification. 5+5=10

5. Write Short notes on: (*Any two*) 10
 - a. Agroclimatology
 - b. Water Budget
 - c. Rainwater Harvesting
 - d. Global Warming

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