

**MA/M.Sc. GEOGRAPHY
FIRST SEMESTER
APPLIED CLIMATOLOGY
MGE – 103 [SPECIAL REPEAT]
[USE OMR FOR OBJECTIVE PART]**

**SET
A**

Duration: 1:30 hrs.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

- The Environmental Lapse Rate or Normal Lapse Rate (NLR) in the atmosphere is
 - 5.6° c per 1000 meter
 - 6.5° c per 1000 meter
 - 6.00° c per 1000 meter
 - 6.65° c per 1000 meter
- The portion of incident radiation energy reflect back from the surface is Called
 - Heat Budget
 - Photons
 - Absorption
 - Albedo
- Which of the following belt is called “Doldrums”?
 - Equatorial low pressure belt
 - Sub-tropical high pressure belt
 - Sub-polar low pressure belt
 - Polar high pressure belt
- The Coriolis effect is caused by-
 - Earth Rotation
 - Earth Rotation and Revolution
 - Earth Revolution
 - Pressure Gradient
- The Westerlies and trade wind are example for following winds
 - Mesoscale
 - Toposcale
 - Macroscale
 - Microscale
- Increase in temperature with increase in height is known as
 - Lapse rate
 - Adiabatic lapse rate
 - Inversion of temperature
 - Normal rate
- A counter clock-wise atmospheric circulation in the northern hemisphere is known as
 - Pressure gradient
 - Cyclone
 - Anti cyclone
 - Tornado
- Insolation reaches the earth surface in the form of
 - Short waves
 - Long waves
 - Microwaves
 - Lorenz curve
- Which one of the following regions does not receive much rainfall during the South-West monsoon season?
 - Tamil Nadu Coast
 - Maharashtra
 - Chota Nagpur Plateau
 - Tripura

Which one of the following pairs is not correctly matched?

- a. Evaporation - The process of converting a liquid to a gas.
- b. Condensation - The change of state from a gas to a liquid
- c. Element - A substance that cannot be decomposed into simpler substances by ordinary chemical or physical means.
- d. Conduction - Tiny bits of particulate matter that serve as surfaces on which water vapours condenses

(Descriptive)

Time : 1 hr. 15 min.

Marks : 25

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

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| 1. What is heat budget of atmosphere? Illustrate with Diagram | 5 |
| 2. Write on Koppen's climate classification of India? | 10 |
| 3. Write about Global warming and Acid rain. | 5+5=10 |
| 4. Discuss Atmospheric Layers in details with diagram. | 10 |
| 5. Represent pressure belts in diagram along with the names and direction of the winds movements. | 10 |

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