

MA GEOGRAPHY
First Semester (Repeat)
CLIMATOLOGY & OCEANOGRAPHY
(MGE - 02)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Answer any four from Question no. 2 to 8
Question no. 1 is compulsory.

1. Define climatology. Explain its scope in terms of applied climatology. (3+7=10)
2. Distinguish between airmass and front. Provide classification of any one of them with suitable diagrams. (4+6=10)
3. What are the basis of climatic classification? Explain. Put forward Koeppen's climatic classification. (4+6=10)
4. What is the basic composition of atmospheric gases? Incoming solar radiation-outgoing solar radiation=0, explain. (5+5=10)
5. Put forward justified explanations about characteristics of ocean waters. Brief about oceans of the world. (5+5=10)
6. Define ocean dynamics. Brief about oceanic ice. (7+3=10)
7. Distinguish between Continental Shelf and Continental Slope. Briefly discuss the topography of the floor of the Pacific Ocean. (5+5=10)
8. What do you mean by Ocean dumping? Describe the different causes of Marine pollutions with suitable examples. (5+5=10)

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Duration: 20 minutes

Marks – 20

(PART A - Objective Type)

I. Tick (✓) the correct answer:

1×20=20

1. In Yugoslavia Mediterranean wind is called-
 - a) Mistral
 - b) Bora
 - c) Pampero
 - d) Gibli
2. Java has a world record of an average of.....days thunderstorms per year.
 - a) 300 days
 - b) 322 days
 - c) 365 days
 - d) 330 days
3. Doldrums in equatorial climate is a-
 - a) Disturbed areas
 - b) Calm areas
 - c) Rainfall zones
 - d) Cyclone zones
4. Wind rose represents-
 - a) Wind data
 - b) Wind turbulence
 - c) Wind pressure
 - d) Wind temperature
5. Which of the following winds is called anti-trade wind?
 - a) Chinook
 - b) Cyclone
 - c) Typhoon
 - d) Westerlies
6. Trade winds are due to-
 - a) Conduction
 - b) Convection
 - c) Radiation
 - d) Scattering

7. A wall of sea water in Bay of Fundy is called-
- Neap tide
 - Tidal bore
 - Spring tide
 - Frontal rainfall
8. What is the cause behind frontal rain?
- Tropical air meets cold polar air
 - Cold air from sea
 - Convection currents
 - None of these
9. Atmospheric pressure generated on the earth's surface is due to-
- Earth's rotation
 - Earth's revolution
 - Gravitational force
 - None of these
10. Blizzards are characteristic feature of-
- Equatorial region
 - Tropical region
 - Antarctic region
 - Temperate region
11. Which of the following belt is called doldrum?
- Equatorial Low pressure belt.
 - Sub tropical high pressure belt
 - Sub polar low pressure belt
 - None of these
- Dynamic cyclones affect the weather conditions of very large areas in-
- Polar latitudes
 - Equatorial latitudes
 - Mid-latitudes
 - None of these

13. Match the following:

Climatic Types

- Af Climate
- Aw Climate
- Am Climate
- As Climate

Their Characteristics

- Humid Tropical Climate
- Tropical Humid and Dry climate
- Monsoon Climate
- Dry Summers

Codes:

- | | A) | B) | C) | D) |
|----|----|----|----|----|
| a) | 1 | 2 | 3 | 4 |
| b) | 4 | 3 | 2 | 1 |
| c) | 3 | 2 | 1 | 4 |
| d) | 2 | 1 | 3 | 4 |

14. The paths of the surface planetary winds are curved due to Earth's-
- Revolution
 - Rotation
 - Circumference
 - Size
15. When there is an active upward ascent of lighter warm air over the cold dense air, the front is called-
- Cold front
 - Warm front
 - Occluded front
 - None of these
16. Which two gases have been added to Earth's atmosphere in large amounts and are believed to have increased global warming by absorbing infrared radiation?
- Chlorine and Nitrogen
 - Hydrogen and Helium
 - Methane and Carbon dioxide
 - Neon and Argon
17. Clouds and ground reflection loss of radiant energy of the Sun is-
- 19.5%
 - 25%
 - 27.3%
 - None of these
18. Any object moving horizontally in the northern hemisphere tends to deflect to the-
- Left
 - Centre
 - Right
 - None of these
19. Instrument used for the measurement of wind speed is called-
- Altimeter
 - Barometer
 - Anemometer
 - None of these
20. Radiation coming from the sun is-
- Long wave
 - Short wave
 - Medium wave
 - None of these
