

MSc Sem.-1 Examination

403

Geoinformatics

February-2025

Time : 2-30 Hours]

[Max. Marks : 70

Section-I

Q-I	Discuss the different pressure belts on the earth's surface with a suitable diagram.	7
	Which factors affect the distribution of rainfall on the earth's surface? Give suitable examples.	7

or

Q-I	Explain the difference between weather and climate. Discuss the different elements of weather/climate.	7
	Discuss the different layers of the atmosphere with a diagram.	7

Q-II	Explain the different types of cyclones with suitable diagrams.	7
	How are humans responsible for global warming?	7

or

Q-II	Discuss in detail Koppen's classification of climate	7
	Which plants and animals have become endangered or extinct due to global warming? Discuss.	7

Q-III	Explain the Physical properties of Oceanic water	7
	Describe the Chemical properties of different Oceans.	7

or

Q-III	Discuss the Sources and factors affecting oceanic water with suitable examples.	7
	Explain the Horizontal and Vertical distribution of temperature with a diagram.	7

Q IV	Write a short note on all zones of oceans.	7
	What are coral reefs and what is their importance to humans and the environment?	7

or

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Q-IV	Explain the EEZ, SEZ and CZMP with suitable examples.	7
	Explain the Ocean Deposits in detail.	7

Section II

Q V	Attempt any seven out of twelve	14
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1. The word greenhouse has come from
(A) glass house with plants (B) colour of gases (C) green coloured house (D) gases
 2. Koppen's classification was _____
(A) genetic (B) numerical (C) not useful (D) empirical
 3. The area over which the airmass gets its characteristic features is known as _____.
(A) source region (B) contour line (C) frontogenesis (D) condensation
 4. _____ is guilty for global warming.
(A) transportation (B) thermal power stations (C) cattle (D) all of the above.
 5. Decrease in temperature with altitude is called _____.
(A) Lapse rate (B) inversion of temperature (C) Isotherm (D) albedo
 6. According to Ferrel's law coriolis force deflects the winds to the _____ in the northern hemisphere.
(A) north (B) south (C) left (D) right
 7. Bangalore receives less rainfall than Mangalore as it lies in the _____ area.
(A) temperate (B) polar (C) rain shadow (D) windward
 8. Trade winds gets rainfall to the _____ side of the continents.
(A) eastern (B) western (C) northern (D) southern
 9. -----is the topmost layer of the ocean that receive sunlight.
A) Aphotic zone B) Tropopause C) Photic D) Erosion
 10. If the amount of rainfall maximum in an area then salinity would be-----
A) Increase B) Decrease C) Lowest D) Moderate
 11. -----is a vertical zone in the oceanic water column in which salinity changes rapidly with depth.
A) Holosphere B) Pycnocline C) Thermocline D) Halocline
 12. -----percentage of Sodium Chloride found in oceanic water.
A) 77 B) 70 C) 35 D) 20
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