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MGG-013

MASTER OF SCIENCE IN

GEOGRAPHY (MSCGG)

Term-End Examination

June, 2025

MGG-013 : OCEANOGRAPHY

Time : 3 Hours

Maximum Marks : 100

Note : *All Sections are compulsory. Marks are indicated against each question.*

Section-A

1. Answer any *five* of the following questions in about **150** words each : 5×4=20

(i) Define Oceanography and briefly describe any *two* branches of Oceanography.

- (ii) What are submarine canyons ? Describe any *two* characteristics of submarine canyons in brief.
- (iii) Define Oceanic Salinity. Explain how evaporation and precipitation affect the salinity in the oceans.
- (iv) What are oceanic waves ? Discuss any *two* characteristics of oceanic waves.
- (v) What is continental shelf ? Mention any *two* processes through which they are formed.
- (vi) What are volcanogenous ocean deposits ? Briefly discuss the *two* types of volcanogenous deposits.
- (vii) Discuss how the processes of convergence and divergence affect the density of ocean water.

Section-B

2. Answer any *five* of the following questions in about **300** words each : 5×6=30

- (i) Give *four* evidences that Wegener cited in the support of his Continental Drift theory.
- (ii) Briefly describe the *three* main types of coral reefs.
- (iii) Discuss any *two* renewable energy sources of the oceans.
- (iv) Explain any *four* techniques used for measuring the ocean temperature.
- (v) What are ocean currents ? Explain any *two* factors affecting the movement of ocean currents.

(vi) What is coastal bleaching ? Discuss any *two* causes of coastal bleaching.

(vii) Discuss any *six* significances of Coastal Regulation Zone (CRZ).

Section-C

Note : Answer any *five* of the following questions in about **500** words each.

5×10=50

3. Discuss the ridges and basins of Indian Ocean.
4. Explain any *two* theories related to the origin of submarine canyons.
5. Classify ocean deposits on the basis of its source and composition. Discuss in detail about any *one* type of ocean deposits.

6. Define tides. Explain the Equilibrium Theory related to the origin of tides with merits and demerits of this theory.
7. Discuss the latitudinal and regional distribution of salinity in the oceans.
8. Discuss any *five* implications of global warming on oceans.
9. Describe the horizontal distribution of density of the oceans.

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