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MGG-013

**MASTER OF SCIENCE IN GEOGRAPHY
(MSCGG)**

Term-End Examination

December, 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) Discuss any *two* eras of oceanic exploration.

- (ii) Cite any *four* major locations of submarine canyons in the world and give *one* example for each location.
- (iii) Define oceanic salinity. Explain how influx of water from rivers and atmospheric pressure affect salinity in the oceans.
- (iv) What are transverse waves and longitudinal waves ?
- (v) Distinguish between seamounts and guyots.
- (vi) Discuss the importance of ocean deposits in brief.

- (vii) In what way does the salinity and pressure affect oceanic density ?

Section-B

2. Answer any *five* of the following questions in

about **300** words each :

5×6=30

- (i) Discuss the tetrahedral hypothesis of the origin of oceans and continents with suitable diagram.
- (ii) Discuss any *six* conditions needed for the growth of corals.
- (iii) Describe briefly the mineral and energy resources of the oceans.

- (iv) Discuss the factors affecting the horizontal distribution of temperature of the oceans.
- (v) What are surface and sub-surface ocean currents ? Explain the global conveyor belt.
- (vi) Explain any *four* causes of global warming.
- (vii) Discuss the significance of Exclusive Economic Zones (EEZ).

Section-C

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

5×10=50

3. Discuss briefly the mid-oceanic ridges and basins of the Atlantic Ocean.

4. What are submarine canyons ? Explain the Turbidity Currents Theory related to the origin of submarine canyons.

5. Define ocean deposits. Explain their vertical distribution in oceans. Discuss the transportation and deposition of oceanic deposits and the agents involved in it.

6. What are tides ? Distinguish between the following with the help of diagrams :
 - (a) Spring tides and Neap tides

 - (b) Apogean tides and Perigean tides

7. Describe the regional distribution of salinity in Atlantic and Pacific Ocean with diagram.

8. What is coastal bleaching ? Discuss the causes and consequences of coastal bleaching.
9. Briefly explain the density of ocean water. Discuss the vertical distribution of ocean water density.

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