

No. of Printed Pages : 5

MGG-013

**MASTER OF SCIENCE IN
GEOGRAPHY (MSCGG)
Term-End Examination
June, 2026**

MGG-013 : OCEANOGRAPHY

Time : 3 Hours

Maximum Marks : 100

***Note :** All Sections are compulsory. Marks are indicated below each Section.*

Section—A

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

about **150** words each :

5×4=20

- (i) Define 'Physical Oceanography and Applied Oceanography'.

- (ii) What are submarine canyons ? Describe their *two* basic characteristics.
- (iii) Define oceanic salinity. State how wind direction and oceanic circulation affect oceanic salinity.
- (iv) Define and explain the terms wave period and wave height with the help of a diagram.
- (v) Differentiate between trenches and deeps with substantiate examples.
- (vi) What are hydrogenous ocean deposits ?
- (vii) Discuss how temperature and salinity 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) Discuss the planetesimal hypothesis of the origin of oceans.

- (ii) Discuss briefly about the *three* types of coral reefs.
- (iii) Explain the importance of fish resources and list the major fishing areas of the world.
- (iv) Explain any *six* basic characteristics regarding vertical distribution of temperature in the oceans.
- (v) Describe any *three* warm ocean currents of Atlantic Ocean and their pattern of movement.
- (vi) Describe the effect of changes in deep water circulation and increase in acidity of the oceans.

- (vii) What is Exclusive Economic Zone (EEZ) ? Divide EEZ into *four* categories based on Churchill and Lowe.

Section—C

Note : Answer any five of the following questions
in about **500** words each. $5 \times 10 = 50$

3. Discuss the ridges and basins of Pacific Ocean.
4. Explain the 'Darwin's subsidence Theory' of the origin of coral reefs.
5. Define Ocean deposits and discuss its significance. Describe terrigenous deposits on the basis of location.

6. What are Tides ? Discuss the stationary Wave Theory of the origin of tides with the help of a diagram.
7. Discuss the latitudinal distribution and vertical distribution of salinity in the oceans.
8. Describe the natural sources of global warming.
9. Discuss the horizontal distribution of density of water in the oceans.

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