

2 0 1 6

GEOGRAPHY

(Major)

Paper : 2.1

(**Oceanography and Climatology**)

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Choose the correct answer of the following :

1×7=7

(a) The actual amount of water vapour present in the air and expressed in grams per cubic metre is called

(i) saturated humidity

(ii) relative humidity

(iii) absolute humidity

(iv) normal humidity

(b) Tropical cyclones mostly occur in the

(i) Pacific Ocean

(ii) Indian Ocean

(iii) Atlantic Ocean

(iv) China Sea

- (c) Trade Winds flow from the
- (i) subtropical belt towards the equator
 - (ii) equator towards the subtropical belt
 - (iii) tropical belt towards the subtropical belt
 - (iv) subtropical belt towards the subpolar belt
- (d) Which of the following statements regarding the atmospheric gases is correct?
- (i) Oxygen is present in the atmosphere with 21% by volume.
 - (ii) Nitrogen is present in the atmosphere with 71% by volume.
 - (iii) Carbon dioxide is abundantly found in the atmosphere.
 - (iv) Ozone is present in larger amount than argon in the atmosphere.
- (e) Romanche Deep is located in the
- (i) Pacific Ocean
 - (ii) Indian Ocean
 - (iii) Atlantic Ocean
 - (iv) Gulf of Cambay

- (f) The line joining the places having an equal degree of salinity is known as
- (i) Isopycne
 - (ii) Isohel
 - (iii) Isohaline
 - (iv) Isosaline
- (g) Which one of the following statements relating to the oceans of the world is correct?
- (i) The Arctic Ocean covering the south pole is smaller than the Pacific Ocean
 - (ii) The Indian Ocean is larger than the Arctic Ocean
 - (iii) The Arctic Ocean is larger than the Atlantic Ocean
 - (iv) The Atlantic Ocean is smaller than the Indian Ocean
2. Answer the following questions : $2 \times 4 = 8$
- (a) What is Horse latitude?
 - (b) What is sea breeze?
 - (c) What is continental shelf?
 - (d) What is barrier reef?

(4)

3. Answer any *three* from the following questions : $5 \times 3 = 15$

(a) Explain the factors affecting salinity of ocean water.

(b) How do ocean currents occur?

(c) State the relationship between temperature and humidity.

(d) Explain how rainfall occurs.

(e) Explain the factors affecting the distribution of insolation over the earth's surface.

4. Discuss the nature and scope of oceanography with necessary examples. $5 + 5 = 10$

Or

Describe the bottom configuration of Atlantic Ocean with a neat diagram. 10

5. Explain the elements of weather and climate with suitable diagrams. 10

Or

Describe with diagrams how cyclones and anticyclones develop in the Northern and Southern hemisphere. 10

(5)

6. What are ocean deposits? Classify ocean deposits into different types and describe about any two. $2 + 2 + 3 + 3 = 10$

Or

Examine the man-ocean relationship in the light of ocean resources. 10

