

2 0 1 8

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 : $1 \times 7 = 7$

(a) All the weather phenomena occur in

- (i) stratosphere
- (ii) mesosphere
- (iii) troposphere
- (iv) thermosphere

(b) Which is not the organic material of ocean deposits?

- (i) Globigerina ooze
- (ii) Calcareous ooze
- (iii) Pteropod ooze
- (iv) None of the above

(2)

(3)

- (c) Atmosphere is a composition of
- (i) dust particles only
 - (ii) gaseous particles only
 - (iii) gaseous, vapour and particulates
 - (iv) water and winds
- (d) The major sources of marine deposits are
- (i) marine plants and animals
 - (ii) terrigenous sources
 - (iii) volcanic eruptions
 - (iv) All of the above
- (e) Which gas absorbs ultraviolet rays radiated from the Sun and prevents the earth from becoming too hot?
- (i) Carbon dioxide
 - (ii) Ozone
 - (iii) Nitrogen
 - (iv) Helium
- (f) The current not related with North Pacific Ocean is
- (i) Kurile current
 - (ii) Alaska current
 - (iii) Peru current
 - (iv) California current

- (g) Isotherms are lines connecting points with equal
- (i) temperature
 - (ii) rainfall
 - (iii) salinity
 - (iv) height

2. Answer the following questions very briefly :

2×4=8

- (a) What is continental shelf?
- (b) What is inversion of temperature?
- (c) Write a note on gulf stream.
- (d) What is Horse Latitude?

3. Answer any three from the following questions :

5×3=15

- (a) Describe with diagrams land breeze and sea breeze.
- (b) "Ocean is an important source of food supply." Justify.
- (c) Write the importance of climatology in Geography.

(4)

- (d) Describe the horizontal distribution of marine sediments.
- (e) Distinguish between tropical and extratropical cyclones.
4. Describe with neat diagram the bottom configuration of Atlantic Ocean. $2+8=10$

Or

What are the types of ocean deposit according to their location? Discuss. 10

5. Discuss the elements and factors of weather and climate. $5+5=10$

Or

Discuss the vertical distribution of temperature in the atmosphere with a diagram. $8+2=10$

6. Define the concept of air mass and describe its characteristics. $3+7=10$

Or

Describe the formation and characteristics of anticyclones. $5+5=10$
