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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

- (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
