

2017

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) Sunda Trench is located in

(i) the Atlantic Ocean

(ii) the Pacific Ocean

(iii) the Indian Ocean

(iv) the Arabian Sea

(b) Terrigenous deposits are found mainly in

(i) deep-sea plain

(ii) continental shelves and slopes

(iii) oceanic trenches

(iv) All of the above

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- (c) Ozone layer is located in
- (i) stratosphere
  - (ii) troposphere
  - (iii) mesosphere
  - (iv) thermosphere
- (d) The Great Barrier Reef is located in
- (i) the eastern side of Australia
  - (ii) the eastern side of Asia
  - (iii) the eastern side of India
  - (iv) the western side of South America
- (e) Air is said to be saturated, when
- (i) its pressure is maximum
  - (ii) its thickness is maximum
  - (iii) it is located over the oceans
  - (iv) it contains maximum amount of water vapour
- (f) In which region does rainfall occur throughout the year?
- (i) Polar region
  - (ii) Middle-latitude region
  - (iii) Equatorial region
  - (iv) Sub-polar region

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- (g) Monsoons are
- (i) westerly winds
  - (ii) seasonal winds
  - (iii) permanent winds
  - (iv) temporary winds
2. Answer the following questions very briefly : 2×4=8
- (a) What are pelagic deposits?
  - (b) What is Ferrel's law?
  - (c) What do you mean by relative humidity?
  - (d) What is continental slope?
3. Answer any *three* from the following questions : 5×3=15
- (a) State the characteristics of tropical airmass.
  - (b) Discuss the impact of ocean currents on coastal areas with suitable examples.
  - (c) Distinguish between cyclones and anticyclones.
  - (d) Write an account of Mid-Atlantic Ridge.
  - (e) Describe the vertical distribution of marine sediments.

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4. Describe the bottom configuration of the Indian Ocean with a neat diagram.  $8+2=10$

Or

Describe the different types of oceanic resources and their economic importance. 10

5. Discuss the nature and scope of climatology.  $5+5=10$

Or

Describe the structure and compositional characteristics of the earth's atmosphere with suitable diagram.  $7+3=10$

6. Discuss the origin and types of airmass with special reference to monsoon airmass.  $5+5=10$

Or

Write the factors controlling the distribution of temperature on the earth's surface. 10

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