## 2019

## **GEOGRAPHY**

( Major )

Paper : 2.1

(Theory)

## 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) In which year Lowthian Green initiated the tetrahedral hypothesis?
    - (i) 1875
    - (ii) 1785
    - (iii) -1587
    - (iv) 1890
  - (b) The single landmass that included all the continents as suggested by Alfred Wegener is known as
    - (i) Angaraland
    - (ii) Pangaea
    - (iii) Laurasia
    - (iv) Panthalassa

- (c) Nebular hypothesis was suggested by
  - (i) Immanuel Kant
  - (ii) Laplace
  - (iii) Chamberlin
  - (iv) Edwin Hubble
- (d) Puerto Rico deep' is located in the
  - (i) Atlantic Ocean
  - (ii) Indian Ocean
  - (iii) Arctic Ocean
  - (iv) Pacific Ocean
- (e) The greenhouse gas that destroys the ozone layer of the atmosphere is
  - (i) carbon dioxide
  - (ii) methane
  - (iii) chlorofluorocarbon
  - (iv) sulphur dioxide
- (f) Atmosphere is heated mainly by
  - (i) incoming shortwave radiation
  - (ii) terrestrial longwave radiation
    - (iii) reflected radiation
    - (iv) refracted radiation

- (g) Divergence of wind is related to
  - (i) cyclone
  - (ii) anticyclone
  - (iii) occluded front
  - (iv) warm front
- 2. Answer the following questions in brief:  $2\times4=8$ 
  - (a) Make difference between Pangaea and Panthalassa.
  - (b) What is tropopause?
  - (c) Write about the importance of ozone layer.
  - (d) What do you mean by 'salinity of ocean water'?
- **3.** Answer any *three* from the following questions: 5×3=15
  - (a) Write an account on the factors affecting salinity of ocean water.
  - (b) How do ocean currents occur?
  - (c) Explain the factors affecting the insolation over the earth's surface.
  - (d) Discuss the world air pressure system with a neat diagram.
  - (e) Write a brief note on 'convergence and divergence of wind'.

4.	Describe	the	nature	and	scope	of	
	oceanography.						10

Or

Write an account on ocean resources and their influence on man.

**5.** Define airmass. Classify airmasses on the basis of their source regions and explain the characteristics of any one of them. 2+6+2=10

Or

With a neat diagram, discuss the structure, composition and characteristics of earth's atmosphere.

6. Write an account on the horizontal distribution of temperature over the earth's surface.
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Or

Discuss the bottom configuration of the Indian Ocean with a neat diagram.

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