

B.A. (Semester – VI) Examination, April/May 2018
GEOGRAPHY

Climatology and Oceanography

Duration : 2 Hours

Total Marks : 80

- Instructions :** 1) **All questions are compulsory.**
 2) **Figures to the right indicate full marks.**
 3) **Draw diagrams to support the answer.**
 4) **Use of map stencil is allowed.**

I. Answer **any four** of the following briefly. 16

- a) Account for the elements of Weather.
- b) Discuss on spatio-temporal distribution of precipitation.
- c) Draw and explain concepts of Hydrological Cycle.
- d) How is insolation lost in the atmosphere ?
- e) Briefly discuss on horizontal distribution of temperature.
- f) What is stability and instability of atmosphere ?

Distinguish between : (**any four**) 16

- a) Trade winds and Westerlies winds.
- b) Cyclones and Anticyclones.
- c) Catastrophes of Hydrosphere and Lithosphere.
- d) Waves and Tides.
- e) Equatorial low pressure belt and subtropical high pressure belt.
- f) Cold and Warm front.

A) Explain the global horizontal heat transport. 6

B) Give a detailed explanation on the occurrence of orographic rainfall. 6

OR

X) Sketch and explain vertical structure of the earth's atmosphere. 6

Y) Explain any four types of temperature inversions. 6

A) Explain in detail how Airmass undergo modifications. 6

B) Explain the salient features of Tropical Cyclone. 6

OR

X) Explain the basis of Thornwaite's and Koppen's climatic classification. 12

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5. A) Describe the general relief of the Ocean.

B) Explain in detail the various natural catastrophes of atmosphere.

OR

X) Explain in detail the currents in the Indian Ocean.

Y) Explain any one theory of tides that you have studied.

6. Write short notes on **any two** of the following :

a) Deep water circulation.

b) Recent views on Indian Monsoon.

c) Jet Streams.