

**3 SEM TDC GGR M 1**

**2018**

( November )

**GEOGRAPHY**

( Major )

Course : 301

( **Climatology** )

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours

*The figures in the margin indicate full marks  
for the questions*

1. Answer the following as directed : 1×5=5

(a) The difference of pressure between two places is known as pressure \_\_\_\_\_.

( Fill in the blank )

(b) In which layer of the atmosphere do almost all the weather phenomenon occur?

(c) Name the permanent wind that blows from the subtropical high-pressure belt to the equatorial low-pressure belt.

( 2 )

(d) The total weight of moisture content per volume of air at definite temperature and point of time is called absolute / relative / specific humidity.

( Choose the correct answer )

(e) What type of climate does the capital letter 'B' mean in Köppen's climatic classification?

2. Write short answers of the following questions (**within 120 words** each) :  $4 \times 3 = 12$

(a) Write in brief about the composition of the atmosphere.

(b) State briefly the concepts of frontogenesis and frontolysis.

(c) Mentioning the climatic zones of India, briefly correlate them to the existing animal lives.

Each of the following questions is to be answered **within 350 words** :

UNIT—I

( **Atmosphere** )

3. Give an account of the factors controlling the vertical distribution of atmospheric temperature. Write in brief about the phenomenon of inversion of temperature.

( 3 )

Or

Mentioning the general distribution of pressure belts of the earth, show its influence on the wind system. 5+5=10

UNIT—II

( **Humidity and Precipitation** )

4. Discuss the concept of hydrological cycle with a suitable diagram. 10

Or

What is a tropical cyclone? How does it originate? Classify it into different types. 2+3+5=10

UNIT—III

( **Classification of Climates** )

5. Give an account of Thornthwaite's scheme of climatic classification. State the reasons why his scheme could not gain popularity. 8+3=11

Or

What is the latest trend in climatic change? What are its indicators? Discuss its impact on human activities. 2+4+5=11

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