

**2 0 1 9**

( 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 : 1×6=6**

(a) Name the layer of the atmosphere which reflects the radiowaves.

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

(c) Dew is a form of condensation.

( Write True or False )

(d) Typhoons are tropical cyclones/  
temperate cyclones.

( Choose the correct answer )

( 2 )

- (e) Name the climatologist whose climatic classification is based on precipitation effectiveness and thermal efficiency.
- (f) The letter A / B / E is used to designate polar climates in Köppen's climatic classification.

( Choose the correct answer )

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

- (a) State briefly the influence of ocean currents and latitudes on climate.
- (b) Describe the occurrence of orographic rainfall.
- (c) Show the impacts of climate change on human activities.

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

UNIT—I

( **Atmosphere** )

3. Define atmosphere. Mentioning the different layers of the atmosphere, describe any one of them with diagram.

$2 + 8 = 10$

( 3 )

Or

Discuss the heat budget of the earth and atmosphere.

10

UNIT—II

( **Humidity and Precipitation** )

4. Define air mass. Mentioning the bases, classify air masses into different types.

2+8=10

Or

What is front? Classify fronts into different types and describe any one of them.

2+4+4=10

UNIT—III

( **Classification of Climates** )

5. Discuss Köppen's system of climatic classification. Mention any two merits of his classification.

8+2=10

Or

Classify Indian climates and describe any one of them.

10

\*\*\*