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(March)

GEOGRAPHY

(Core)

Paper : C-2

(Climatology)

(Theory)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

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

1. Choose the correct answer : 1×5=5

(a) _____ alone constitutes about one-fifth
of dry air.

(Oxygen/Nitrogen/Carbon dioxide)

(b) _____ along with oxygen and ozone
absorbs roughly 15 percent of total
solar radiation within the atmosphere.

(Dust particles/Carbon dioxide/
Water vapour)

(c) In the inter-tropical convergence zone,
the two winds that meet are known as
_____.

(prevailing winds/trade winds/
westerlies)

(d) The temperature at which air must be
cooled in order to become saturated
with water vapour is called _____.

(dew point/zero point/freezing point)

(e) Tropical cyclones with severe force in
western North Pacific Ocean are called
_____.

(hurricanes/typhoons/tornadoes)

2. Write short notes on the following (any two) : 4×2=8

(a) Relative humidity

(b) Westerlies

(c) Fogs

3. What is meant by heat budget of the earth?
Explain the mechanism of heat budget of the
earth with a suitable diagram. 2+8=10

(3)

Or

What is temperature inversion? Discuss the processes of heating and cooling of the atmosphere. 2+8=10

4. Write a brief note about the pressure belts of the earth's surface elaborating their role in the planetary wind system with a suitable diagram. 10

Or

What is precipitation? Discuss the various forms of precipitation. 2+8=10

5. What is a cyclone? Distinguish between tropical cyclones and extra-tropical cyclones. 1+9=10

Or

Discuss the advantages and limitations of Köppen's climatic classification. 10

6. Write short notes on the following (any two) : 5×2=10

- (a) Effect of duration of sunshine upon insolation
- (b) Condensation and its forms
- (c) Climatic impact of south-west monsoon winds upon India

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