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1 SEM TDC GGRH (CBCS) C 2

2021

(Held in January/February, 2022)

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) The solid and liquid particles contained in the air is collectively called ____.

(particulates / aerosols /
hygroscopic nuclei)

(b) The cold local wind blowing during the winter in Spain and France is known as ____.

(Bora / Blizzard / Mistral)

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(Turn Over)



(2)

(c) _____ is an instrument used to measure wind speed.

(Anemometer / Accelometer / Altimeter)

(d) Arctic sea-smoke is a type of _____ fog.
(Frontal / Upslope / Steam)

(e) The zone of trade winds is also called Hadley Cell.

(Write True or False)

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

- (a) Terrestrial radiation
- (b) Latent heat of condensation
- (c) Doldrum

3. Give a brief description about the structure of the atmosphere with a diagram. 10

Or

What is insolation? Explain the factors which control insolation. $1 + 9 = 10$

4. Define lapse rate. Discuss the factors that control the distribution of temperature. $1 + 9 = 10$

Or

What is meant by jet streams? Explain the relationship between jet streams and Indian monsoons. $2 + 8 = 10$

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(Continued)

(3)

5. Explain the terms 'humidity', 'evaporation' and 'condensation'. Elaborate the significance of relative humidity. 10

Or

Give an account of the types of tropical cyclones along with their distribution. 10

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

- (a) Ground or surface inversion of temperature
- (b) Orographic precipitation
- (c) Principal climatic types identified by Köppen

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