



COOCH BEHAR PANCHANAN BARMA UNIVERSITY
B.A. Honours 3rd Semester Examinations, 2023

GEOGRAPHY

CLIMATOLOGY

CORE-5

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

Answer any one question from the following

15×1 = 15

1. Define Atmosphere. Write the importance of Ozonosphere. Discuss the heat budget of the earth with proper sketches. 2+3+10
2. Discuss the different theories related to Indian monsoon. 15
3. Attempt a classification of the world climate after Thornthwaite. 15

GROUP-B

Answer any one question from the following

10×1 = 10

4. Define Airmass. What are the different types of airmass? 2+8
5. Discuss the different stages of formation of Temperate Cyclone with proper sketches. 10
6. Write down the factors affecting insolation. What is Inversion of Temperature? 6+4

GROUP-C

Answer any one question from the following

5×1 = 5

7. Write a short note on the Index cycle of Jet stream. 5
8. Compare between Absolute and Relative Humidity. 5
9. Write a short note on ITCZ. 5

GROUP-D

10. Answer any *ten* questions from the following:

1×10 = 10

- (a) 'Furious Fifties' is observed along _____ latitude.
- (b) What is Normal Lapse Rate of Temperature?
- (c) Name a local wind with cooling effect.
- (d) Define Aerosols.
- (e) Albedo of the earth _____% of the incoming solar radiation.
- (f) What is Cs Climate?
- (g) Write the full form of IMD.
- (h) Humidity is measured by _____.
- (i) What is the direction of wind movement in cyclonic circulations in northern hemisphere?
- (j) Name one Ozone depleting substance.
- (k) Define Trade wind.
- (l) What is Western Disturbance?
- (m) Name two regions of the world experiencing pseudo-monsoon.
- (n) Write the full form of ENSO.
- (o) What is Walker circulation?

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