



WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 3rd Semester Examination, 2023-24

GEOACOR05T-GEOGRAPHY (CC5)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable
All symbols are of usual significance.*

CATEGORY-A

Answer any one question from the following (within 600 words) 10×1 = 10

1. Discuss in detail the factors controlling the horizontal distribution of temperature. 7+3
Mention the types of "Inversion of temperature".
2. How does condensation differ from precipitation? Explain the mechanism of raindrop formation according to Bergeron-Findeisen theory. 3+7

CATEGORY-B

Answer any four questions from the following (within 150 words each) 5×4 = 20

3. What are the major characteristics of monsoon wind in India?
4. How does the Earth's atmosphere act as a "Green House"?
5. Describe the Heat Budget of the atmosphere with suitable diagram.
6. Describe the characteristics of a "warm front" in the Mid-latitude cyclone.
7. Discuss with suitable sketches the "Index cycle" of the 'Jet stream.'
8. How Indian monsoon is related with El Nino?
9. What are the bases of Köppen's classification of world climate?

CATEGORY-C

Answer any five questions from the following (within 50 words each) 2×5 = 10

10. What is meant by an occluded front?
11. What is SMOG?
12. Define Albedo.
13. What is geostrophic wind?
14. What do you mean by insolation?
15. What are Rossby waves?
16. Mention the importance of the troposphere.
17. Mention two methods of reducing the depletion of ozone layer.
18. What is the significance of sea surface temperature on tropical cyclone?

— x —