WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2021-22

GEOACOR05T-GEOGRAPHY (CC5)

CLIMATOLOGY

Time Allotted: 2 Hours   Full Marks: 40
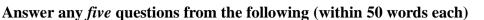
The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

CATEGORY-A

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

1. What do you understand by inversion of temperature? Discuss its different types with suitable sketches.   2+8

2. Define precipitation. Discuss Bergeron-Findeisen theory of raindrop formation with suitable diagram.   2+8

CATEGORY-B

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

3. Differentiate between normal lapse rate and adiabatic lapse rate.

4. Describe the structure of tropical cyclone with special mention of Sea Surface Temperature.

5. Account for the formation of Ozone hole over Antarctica and suggest measures to minimise it.

6. Discuss briefly the stages of Index Cycle.

7. Discuss the major factors that affect the Heat Budget of the atmosphere.

8. List the basic parameters for classification of world climate by Koppen.

9. How does the Earth's Atmosphere act as a 'Green House'?

CATEGORY-C

Answer any *five* questions from the following (within 50 words each)

10. Define Albedo.

11. How does Sunspot affect Insolation?

12. What is the role of an 'eye' in the development of a tropical cyclone?

13. What is Mesopause?

14. Mention the characteristics of weather associated to Mid-Latitude Cyclones.

15. What are Rossby Waves?

16. What do you understand by the Latent Heat of Condensation?

17. Define Airmass.

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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