#### CBCS/B.A./B.Sc./Hons./3rd Sem./Geography/GEOACOR05T/2019





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**WEST BENGAL STATE UNIVERSITY** B.A./B.Sc. Honours 3rd Semester Examination, 2019

## **GEOACOR05T-GEOGRAPHY (CC5)**

#### CLIMATOLOGY



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 <i>one</i> question from the following (within 600 words)	$10 \times 1 = 10$
Discuss the structure and composition of the atmosphere. What is meant by	7+3 =10

- inversion of temperature?What is condensation? Mention different forms of condensation. Describe the 2+3+5=10
- ice-crystal theory of raindrop formation. Condensation Describe the 2+3+5=10

#### **CATEGORY-B**

# Answer any *four* questions from the following (within 150 words each) $5 \times 4 = 20$

- 3. What do you understand by the heat budget of the earth?
- 4. Describe the Index-Cycle of a Jet stream.
- 5. Distinguish between barotropic and baroclinic conditions of the atmosphere.
- 6. How does the location of monsoon trough influence wind direction in India?
- 7. Differentiate cTwu airmass and mPks airmass.
- 8. Discuss the tri-cellular model in atmosphere in brief.
- 9. Discuss the role of frontogenesis in the formation of mid-latitude cyclones.

#### **CATEGORY-C**

Answer any *five* questions from the following (within 50 words each)  $2 \times 5 = 10$ 

- 10. What do you mean by Insolation?
- 11. What is the Hadley cell?
- 12. What is meant by the 'Ozone hole'?
- 13. What is the 'eye' of a cyclone?
- 14. Distinguish between Bw and Bs climates.
- 15. Differentiate between dry and wet adiabatic lapse rates.
- 16. What is geostrophic wind?
- 17. Describe the relationship between thermal gradient and wind movement.
- 18. What is meant by an occluded front?

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