



**WEST BENGAL STATE UNIVERSITY**  
B.A. /B.Sc. Honours PART-II Examinations, 2016

**GEOGRAPHY-HONOURS**  
**PAPER-GEOA-III**

Time Allotted: 4 Hours

Full Marks: 100

*The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable.*

**Group-A**

**(Climatology)**

**Cat-A**

Answer any *two* questions within 600 words each.

10×2 = 20

1. What is inversion of temperature? What are the different types of temperature inversion? 2+8
2. How does condensation differ from precipitation? Explain the mechanism of raindrop formation according to Bergeron-Fiendisen theory. 10
3. Discuss the origin and characteristic structure of tropical cyclones. Illustrate your answer with proper diagram. 10
4. What is Rossby wave? Explain the genesis of monsoon over the Indian sub-continent. 2+8

**Cat-B**

Answer any *four* questions within 150 words each.

5×4 = 20

5. What are the important factors affecting heat budget of the atmosphere.
6. Discuss the factors responsible for creating Ozone hole over Antarctica.
7. How does pressure gradient force influence wind circulation?
8. 'Vegetation is an important basis of climatic classification'. –Explain.
9. 'Briefly explain the Collision-Coalescence process in rainfall formation.
10. Explain the formation of sub-polar low pressure belt.
11. Distinguish between barotropic and baroclinic conditions of the atmosphere.

**Group-B**

**Soil Geography**

**Cat-A**

Answer any *one* question from the following within 600 words.

10×1 = 10

12. Explain with examples how soil profiles differ under varying conditions of climate and parent material. 10
13. Describe the causes of soil erosion. Suggest suitable management options. 6+4

**Cat-B**

Answer any *four* questions within 150 words each: 5×4 = 20

23. Discuss the role of succession in creating climax vegetation.
24. Specify the factors affecting the distribution of world fauna.
25. Describe the characteristics of Taiga Biome.
26. Why is the Tropical Rain Forest biome rich in biodiversity?
27. Describe the importance of Wildlife conservation in India.
28. What is Ecotone? Explain with examples.