



WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours Part-II Examination, 2020

GEOGRAPHY

PAPER: GEOA-III

Time Allotted: 2 Hours

Full Marks: 50

*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 (20 marks)

Category-A

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

1. What are the major components of Atmosphere? Describe the layers of lower Atmosphere. 3+7 = 10
2. Compare the characteristic features of tropical and temperate cyclones. What is occlusion? 8+2 = 10
3. Highlight the major Green House Gases present in the Atmosphere. Assess the importance of ozone layer in the atmosphere with special reference to its formation and depletion. 3+7 = 10

Category-B

Answer any *two* questions from the following within 150 words 5×2 = 10

4. Explain the process of Ground inversion. 5
5. Distinguish between geostrophic wind and gradient wind. 5
6. Explain the Thermal Engine concept in relation to the monsoon system. 5
7. Discuss briefly the 'Index Cycle'. 5

GROUP-B and GROUP-C
(Soil Geography and Bio-Geography (30 marks))

Category-A

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

8. Explain with suitable examples how soil profiles differ under varying conditions of climate and parent material. 10
9. Discuss the role of organic matter in the enhancement of soil fertility with special reference to Chernozem soil. 10
10. What is Biome? Discuss the distribution of typical flora and fauna in Taiga Biome. 2+8 = 10

Category-B

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

11. What are zonal, azonal and intra-zonal soils? 5
12. Differentiate between leaching and capillary action. 5
13. What are the major principles of 'Man and Biosphere' programme? 5
14. Discuss the Energy Pyramid with suitable Diagrams. 5
15. Describe different structures of soil. 5
16. How does food chain differ from food web? Explain with examples. 5
17. Bring out the role of anthropogenic factors in soil erosion. 5

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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