



'সমানো মন্ত্র: সপিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Honours 6th Semester Examination, 2023

DSE-P3-GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

Students have to choose either Option A or B

OPTION-A
ADVANCED CARTOGRAPHY

SECTION-I

1. Explain / Define any **five** from the following: 1×5 = 5
- (a) Gnomon
 - (b) Contouring
 - (c) Standard Parallel
 - (d) Developable Surface
 - (e) Line of Collimation
 - (f) Passive Sensor
 - (g) Pixels
 - (h) Stadia.

SECTION-II

Answer any three questions from the following 5×3 = 15

- 2. Trace the evolution of cartographic knowledge in Medieval period. 5
- 3. What are the methods involved in finding distance of base by theodolite without measuring tape? 5
- 4. Classify perspective projection on the basis of source of light. 5
- 5. Mention the basic principles and uses of Universal Transverse Mercator's Projection. 5
- 6. Present a description of different bands used in Remote Sensing. 5

SECTION-III

Answer any two questions from the following 10×2 = 20

- 7. Write on the properties and derivations of Polar Zenithal Equidistant Projection. 3+7
- 8. Derive the fundamental equations on Simple Conical Projection with two standard parallels. 10

9. Derive the formula for determination of height of any object if the ground is levelled and base is inaccessible by using transit theodolite. 10
10. Explain the various applications of GIS. 10

OPTION-B
POLITICAL GEOGRAPHY

SECTION-I

1. Explain / Define any *five* from the following: 1×5 = 5
- (a) Stateless nation
 - (b) Midland basin
 - (c) Geopolitics
 - (d) Frontier
 - (e) Geometric Boundary
 - (f) Forced displacement
 - (g) Enclave
 - (h) Rehabilitation.

SECTION-II

Answer any *three* questions from the following

5×3 = 15

2. Write an account on the nature and scope of political geography. 5
3. Write a note on nation-state concept. 5
4. Give an account on Spykman's Rimland Theory. 5
5. Why Nepal is called a buffer state between India-China? 5
6. What do you understand by the politics of displacement? 5

SECTION-III

Answer any *two* questions from the following

10×2 = 20

7. Describe the Geo-strategic idea of H. J. Mackinder in the light of his concept of pivot area and strategic heartland. 10
8. How frontier differs from boundary? Attempt a classification of boundary. 3+7
9. 'Nation-State-Territory relationship is the central organizing principle of the Political Geography' – Explain. 10
10. Write a note on water-sharing disputes in India. 10

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