



‘समानो मन्त्रः समितिः समानी’

UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Honours 6th Semester Examination, 2024

DSE-P3-GEOGRAPHY

OLD SYLLABUS [For students with registration session 2018-2019 to 2020-2021]

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) Perspective projection
 - (b) Nadir point
 - (c) Rhumb line
 - (d) GTS
 - (e) Vernier constant
 - (f) Standard parallel
 - (g) Constant of cone
 - (h) Projection plane.

SECTION-II

Answer any *three* from the following

5×3 = 15

- 2. Classify Map projection based on source of Light.
- 3. Discuss about the properties of Mercator's projection.
- 4. Discuss about different uses of Surveying.
- 5. Differentiate between Rise-fall method and Collimation method for dumpy level Survey.
- 6. What are the limitations of Polar Zenithal Equal Area Projection?

SECTION-III

Answer any *two* questions from the following

10×2 = 20

- 7. Explain the scope and content of cartography.
- 8. Explain the techniques of digital image processing.

9. Explain the properties of Electromagnetic spectrum in the context of Remote Sensing.
10. Derive the fundamental equations for simple conical projections with two standard parallels.

OPTION-B
POLITICAL GEOGRAPHY

SECTION-I

1. Answer any *five* questions from the following: 1×5 = 5
 - (a) Nation-State
 - (b) Antecedent Boundary
 - (c) Buffer state
 - (d) SAARC
 - (e) Chipko Movement
 - (f) Geopolitics
 - (g) Displacement
 - (h) Rehabilitation.

SECTION-II

- Answer any *three* questions from the following 5×3 = 15
2. Differentiate between Frontier and Boundary. 5
 3. Define State. Write a short note on attributes of state. 1+4
 4. Write a short note on Heartland Theory as proposed by Mackinder. 5
 5. Briefly describe the conflicts related to forest rights in India with suitable examples. 5
 6. What do you understand by politics of displacement? 5

SECTION-III

- Answer any *two* questions from the following 10×2 = 20
7. Write a short note on scope and content of political geography. 10
 8. Critically analyze the Rimland Theory as proposed by Spykman. 10
 9. What are the major causes of water-sharing disputes in India? 10
 10. Critically evaluate the issues of relief during displacement. 10