



UNIVERSITY OF NORTH BENGAL
B.A./B.Sc. Honours 1st Semester Examination, 2019

CC1-GEOGRAPHY

GEOTECTONICS

Time Allotted: 2 Hours

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.*

SECTION-I

1. Answer any *five* from the following: 1×5 = 5
Define the following terms:
- (a) Permian-Triassic Extinction
 - (b) Gutenberg Discontinuity
 - (c) Monocline
 - (d) Love Wave
 - (e) Isostatic Readjustment
 - (f) Hypocentre
 - (g) Bouguer Anomaly
 - (h) Fault breccia.

SECTION-II

2. Answer any *three* questions from the following: 5×3 = 15
- (a) "Neogene Era is subsequent to the Palaeogene Era" — Elucidate. 5
 - (b) Attempt a classification of volcanoes. State the basis of your classification. 5
 - (c) Differentiate between 'dip-slip' faults and 'strike-slip' faults. 5
 - (d) Elaborate on the concept of 'Seafloor Spreading' as postulated by Hess. 5
 - (e) Divide the Earth's interior on the basis of its physical properties. 5

SECTION-III

3. Answer any *two* questions from the following: 10×2 = 20
- (a) Prepare a chart showing the 'Geological Time Scale', highlighting the major geological events. 10
 - (b) Explain the concepts of: 10
 - (i) Gravitational Anomaly.
 - (ii) Level of Compensation.
 - (c) Mention the names of the major plates of the Earth. Describe the salient features of different kinds of plate margins with suitable diagrams. 3+7
 - (d) Write a note on the topographic effects of folding. 10

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CC1-GEOGRAPHY (PRACTICAL)

Time Allotted: 2 Hours

Full Marks: 20

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1. Draw a comparative linear scale (time scale) to show the motion of a scout team advancing at the rate of 4 km per hour if the R.F. of the map is 1: 140000. 7
2. Draw neat graticules on Mercator's Projection for showing map of world with the help of following data and also give the necessary calculations: 10
 - (i) Parallels of Latitudes: All
 - (ii) Meridians: All
 - (iii) Interval: 10°
 - (iv) Scale: 1: 17500000
3. Laboratory Note Book and Viva-voce. 3

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CC2-GEOGRAPHY
GEOMORPHOLOGY

Time Allotted: 2 Hours

Full Marks: 40

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SECTION-I

1. Answer any *five* from the following:

1×5 = 5

Define the following terms:

- (a) Open System
- (b) 'Trio of Davis'
- (c) Chelation
- (d) Pediment
- (e) Convexo-Concave Slope
- (f) Digitate Delta
- (g) Deep Weathering
- (h) Speleothem.

SECTION-II

2. Answer any *three* questions from the following:

5×3 = 15

- (a) Mention the role of climate as a controlling factor of weathering. 5
- (b) Why is the 'Davisian Cycle of Erosion' referred to as the 'Normal Cycle of Erosion'? 5
- (c) What are the major processes of fluvial transportation? 5
- (d) Mention the role of fluvial action in an arid region as an agent of changing landscape. 5
- (e) What are the components of a slope? 5

SECTION-III

3. Answer any *two* questions from the following:

10×2 = 20

- (a) "The same physical processes and laws that operate today, operated throughout geological time, although not always with the same intensity as now." — Elucidate. 10
- (b) State the relation between 'uplift' and 'erosion' in the evolution of landforms. 10
- (c) Define 'Coast'. Describe the erosional features produced by marine erosion. 10
- (d) Explain the 'Parallel Retreat Model' of slope evolution. 10

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CC2-GEOGRAPHY (PRACTICAL)

Time Allotted: 2 Hours

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Answer all the questions

1. (a) Prepare a slope zone map (after Wentworth) from the given topographical map using 8 cm × 8 cm area (as directed) and interpret the same. 4+1 = 5
(b) Explain the influence of relief on the settlement patterns from the given topographical map. 6
2. Identify the given samples of rocks and minerals and give two characteristics of each. 2+4 = 6
3. Laboratory Note Book and Viva-voce. 3

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