



UNIVERSITY OF NORTH BENGAL

B.Sc. Honours Part-III Examination, 2021

GEOLOGY

PAPER-XVI

GEOPHYSICAL PROSPECTING, ENGINEERING GEOLOGY AND ENVIRONMENTAL GEOLOGY

Full Marks: 50

ASSIGNMENT

The figures in the margin indicate full marks.

Answer *all* the questions. All questions carry equal marks

GEOPHYSICAL PROSPECTING, ENGINEERING GEOLOGY

Answer any *two* questions from the following

$12\frac{1}{2} \times 2 = 25$

1. Answer any ***one*** from the following:

- (a) Discuss the different gravity corrections.
- (b) Describe the Schlumberger and Wenner Sounding methods. List their strengths and weaknesses.

2. Answer any ***one*** from the following:

- (a) What is grouting? Describe the different types of grouting.
- (b) What are the geological considerations that should be taken into account for construction of dams?

ENVIRONMENTAL GEOLOGY

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

$12\frac{1}{2} \times 2 = 25$

- (a) Illustrate the consequences of development in floodplains. Add note on strategies for Reducing flood hazards.
- (b) Illustrate different types of mass wasting.
- (c) How oceanic thermohaline circulation influences climate?
- (d) Discuss the environmental impact of coal use.

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