

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours Part-III Examination, 2021

GEOLOGY

PAPER-XIV

FUEL GEOLOGY AND HYDROGEOLOGY

Full Marks: 50

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

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any *four* from the following. All questions carry equal marks

FUEL GEOLOGY

Answer any <i>two</i> questions from the following	$12\frac{1}{2} \times 2 = 25$
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- 1. Answer any *one* from the following:
 - (a) What do you know about proximate and ultimate analysis of coal?
 - (b) Compose an illustrative note on macerals of coal.
- 2. Answer any *one* from the following:
 - (a) What are reservoir traps? Name the types of traps. Describe structural traps.
 - (b) Explain primary and secondary migration of petroleum.

HYDROGEOLOGY

- 3. Answer any *two* from the following:
 - (a) Write a short note on unconfined aquifer and hydrological cycle.
 - (b) Discuss how resistivity logging is useful in groundwater investigation.
 - (c) Write a short note on Horton's law of stream order and perched water table.
 - (d) Explain the different aquifer properties with appropriate examples.

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