



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2023

CC1-GEOLOGY

INTRODUCTION TO EARTH SYSTEM SCIENCE

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

Answer any five from the following

1×5 = 5

1. What is crust?
2. What is the basic rock composition of mantle?
3. What is mid oceanic ridge?
4. What is the difference between felsic and mafic rock?
5. What is supernova?
6. What is a lithophile and atmophile element?
7. What is Mohorovicic discontinuity?
8. What is Geosyncline?

GROUP-B

Answer any three from the following

5×3 = 15

9. What do you mean by cosmic nucleo-synthesis of elements?
10. How are igneous, sedimentary and metamorphic rocks different from each other?
11. Define Bode's law and Oddo Harkins Rule.
12. What are the types of stratigraphic units used in separate stratigraphic units and markers?
13. Define Continental Shelf, Continental Slope and Continental Rise.

GROUP-C

Answer any two from the following

10×2 = 20

14. What is a subduction zone? Can you explain with neat sketch? What is a meteorite?
15. What are the isotopes they can be used for radiometric dating? How can it be done?
16. What is the meaning of Eh and pH ? How is G connected to H and S and T? Explain.
17. What is Continental Drift Theory? Explain.

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