



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 1st Semester Examination, 2020

CC1-GEOLOGY

EARTH SYSTEM SCIENCES

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any four questions from the following

10×4 = 40

1. Describe destructive and constructive plate boundaries. 10
2. Write a short note on earthquake and its origin. 10
3. Describe the origin and evolution of biosphere. 10
4. Compare the inner planet and outer planet on the basis of size, composition and angular momentum. How did Bode's Law help us to understand the location of the Asteroid Belt? 4+6
5. Differentiate the layers of the earth based on the rheological behavior. What is geochemical cycle? How the material change does took place during various stages of geochemical cycle? 5+2+3
6. Write down the Oddo-Harkin rules. Why there is a pronounced atomic peak found at atomic number 26? Why depth of Mohorovicic is not similar throughout the interior of the earth? 3+4+3
7. Explain the law of uniformitarianism. Can you explain the role of clay in the evolution of Hadean-Archaen life? What do you understand by Aeon, Era, Period, Epoch and Age in context of geological time scale? Explain with example. 2+3+5

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