



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 5th Semester Examination, 2020

DSE1-GEOLOGY

EARTH AND CLIMATE

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any *four* questions from the following

10×4 = 40

1. Describe briefly Atmospheric circulation of Heat. 10
2. What are the major effects of Earthquakes? Briefly describe about earthquake risk, earthquake prediction and response to the earthquake hazards. 3+7
3. Describe briefly how Earth maintains its heat balance. 10
4. Name the different spheres/subsystems of the Earth System. What do you understand by the word feed-back mechanisms in the Earth System? Write down five instances of mutual interaction/feedbacks taking any two of the subsystems at a time. 10
5. Briefly explain the concept of Global Warming and how it is affecting our Earth. 10
6. Write short notes on the following: $2\frac{1}{2} \times 4 = 10$
 - (a) Magnitude and frequency of a natural process
 - (b) Environmental impact of mineral development
 - (c) Geothermal Energy
 - (d) Ecological restoration.
7. What are the forces controlling the formation of Ekman spiral? Explain with diagram and if possible mathematical expression. How can the Coriolis force be generated? 6+4

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