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The Assam Royal Global University, Guwahati

Royal School of Environmental & Earth Sciences

UG (Generic Elective 4/8) 2nd /4th /6th Semesters

Semester End Examination, June 2023

Course Title: EARTH SCIENCES

Course Code: GEOL162G202

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.

The figures in the right-hand margin indicate marks.

Section – A

1. Attempt all questions. (Maximum word limit 50) 2 x 8
- Define crust and mantle.
 - What is transform fault boundary?
 - Define gorges.
 - Define littoral zone.
 - What is paraffin? Give example.
 - Differentiate between coking and non-coking coal.
 - Define water table.
 - Define permeability. How can porosity be expressed?

Section – B

2. Attempt any two of the following: 6x 2
- What is the age of earth? Describe geological time scale.
 - Define magma and lava. Illustrate the interior of the earth showing both mechanical and chemical layers.
 - Differentiate between plate boundary and plate margin. Why is divergent boundary also called constructive boundary? Explain.
3. Attempt any two of the following: 7 x 2
- Define disintegration of rocks. Analyse the different factors controlling the rates of weathering.
 - Describe the different erosional features of stream.
 - What is base level of erosion? Explain the different drainage patterns.
4. Attempt any two of the following: 7 x 2
- What is crude oil? Describe the rank of coals.
 - Define source rock. Explain the role of a good cap rock.
 - Define hydrocarbon trap. Explain the causes of migration of petroleum.
5. Attempt any two of the following: 7 x 2
- What is cal de sac pore? Differentiate between confined and unconfined aquifer.
 - Explain the vertical distribution of ground water.
 - Define artificial recharge. Explain the various components of rain water harvesting.