

B.Sc. 1st Semester (Honours) Examination, 2019-20

GEOLOGY

Course ID : 12011

Course Code : SHGEL-101C-1

Course Title: Earth System Science

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the right hand side margin indicate marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* of the following questions: 1×5=5
- (a) Name the four spheres of the Earth Super-system, which are involved in geochemical cycle.
 - (b) What is seismic shadow zone?
 - (c) What is the approximate depth of Lehmann discontinuity?
 - (d) What is asteroid belt?
 - (e) What is Oddo-Harkins rule?
 - (f) Who is known as the 'Father of the Modern Geology'?
 - (g) What is the age of the oldest rock record on earth?
 - (h) What is the basis of Richter's scale for measurement of earthquake?
2. Answer *any two* of the following questions: 5×2=10
- (a) Write a brief note on different types of plate boundary.
 - (b) Write a classification of meteorites based on their composition.
 - (c) Furnish subdivisions of Palaeozoic Era in a tabular form.
 - (d) Describe the 'Elastic Rebound' theory with necessary sketch.
3. Answer *any one* question of the following: 10×1=10
- (a) Briefly describe the ways by which the relative time of geological events can be determined.
 - (b) Describe different types of anti-seismic constructions.
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