

*SH-I/Geology/101C-1(T)/19***B. Sc. Semester I (Honours) Examination, 2018-19****GEOLOGY****Course ID : 12011****Course Code : SHGEL-101C-1(T)**

Course Title : Earth System Science

Time: 1 Hour 15 Minutes**Full Marks: 25***The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer *any five* questions from the following: 1×5=5
 - (a) What is asteroid?
 - (b) What is the 'age of reptiles'?
 - (c) Write down the basic statement of the 'Law of uniformitarianism'.
 - (d) What is the age of the oldest rock record on earth?
 - (e) Write the name of the discontinuity surface between continental and oceanic crust.
 - (f) What is the composition of earth's core?
 - (g) What happened at Permian/Triassic boundary?
 - (h) What is the epicentre of an earthquake?

 2. Answer *any two* questions from the following: 5×2=10
 - (a) Compare between the following:
 - (i) Weathering and Erosion
 - (ii) Meteorite and Crustal igneous rock.
 - (b) Classify volcano according to their life cycle. Give example.
 - (c) Briefly discuss about the different types of mechanical weathering process.
 - (d) Provide the subdivision of Cenozoic Era in a tabular form.

 3. Answer *any one* question from the following: 10×1=10
 - (a) What do you mean by tectonic plate? Describe with necessary sketches different types of plate boundaries. 2+8=5
 - (b) Compare between terrestrial planets and Jovian planets. Briefly describe Nebular hypothesis regarding the origin of earth. 5+5=10
-