

**B.Sc. 1st Semester (Honours) Examination, 2020 (CBCS)**

**Subject: Geology**

**Paper: CC-1**

**(Earth System Science)**

**Time: 2 hours**

**Full Marks: 40**

*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 eight of the following questions.**

8x5=40

- (a) Give an outline of Nebular hypothesis on the origin of solar system.
- (b) Give the basic assumptions of Plate Tectonic hypothesis.
- (c) Briefly describe the 'Accumulated atmosphere hypothesis' for the origin of earth's atmosphere.
- (d) Briefly describe the salient features of constructive plate boundaries.
- (e) Briefly describe the formation of oxbow lakes.
- (f) Distinguish between 'Barchans' and 'Seif dunes'.
- (g) Distinguish between weathering and erosion.
- (h) State the principle of law of uniformitarianism. Is it applicable to all stratigraphic successions?
- (i) What is 'eustasy'? What do you mean by diastrophic eustasy?
- (j) Briefly describe Airy's hypothesis of isostasy.