(g) What is isostatic rebound?

(h) Define focus of an earthquake.

2. Answer **any** *two* question : 5×2=10

(a) Compare between the following : $2 \times 2\frac{1}{2} = 5$

   (i) S wave and P wave.

   (ii) Terrestrial planets and Jovian planets.

(b) Write a short note on soil profile.

(c) Write the evidence in favour of Wegner's Theory of Continental Drift.

(d) Briefly describe the Law of Superposition and comment on the limitation of this law. 3+2=5

3. Answer any *one* question : 10×1=10

(a) Briefly describe with neat sketch the internal structure of the Earth with special emphases on major discontinuity surfaces.

(b) What are the different types of ocean circulation patterns? Briefly discuss their role as climate regulator. 3+7=10

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B.Sc. 1st Semester (Honours) Examination, 2022-23

GEOLOGY

Course ID : 12011 Course Code : SH/GEL/101/C-1T

Course Title : Earth System Science

Time : 1 Hour 15 Minutes *Full Marks :* 25

The figures in the right hand margin indicate full marks.

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

1. Answer **any** *five* questions : 1×5=5

(a) What is asteroid?

(b) What is the age of the oldest rock record on the Earth?

(c) Define Hot spot.

(d) Define exfoliation.

(e) What is triple junction?

(f) What do you mean by eustasy?