

B.Sc. Semester-VI Examination, 2022-23**GEOLOGY [Honours]****Course ID : 62017 Course Code : SH/GEL/604/DSE-4(T)****Course Title : Geodynamics**

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand 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: $1 \times 5 = 5$
- What is mantle plume?
 - Mention one important ophiolite occurrence in India.
 - What is melange?
 - What is natural remanent magnetisation (NRM)?
 - What is triple point?
 - Who proposes the continental drift hypothesis?
 - How many major tectonic plates are there in the Earth?
 - Define accretionary prism.

2. Answer any **two** of the following questions:

 $5 \times 2 = 10$

- Discuss the geomagnetic time scale with important characteristics of different epochs.
- Write a brief note on different types of plate boundaries with sketch.
- Write a brief note on seismic and petrological Moho.
- Describe the Wilson cycle.

3. Answer any **one** of the following questions:

 $10 \times 1 = 10$

- Describe the evidences in support of the continental drift hypothesis.
- Compare the magmatic activities in ocean ridges and subduction zones.