

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 6072

H

Unique Paper Code : 2194001201

Name of the Paper : Physics and Chemistry of Earth GE

Name of the Course : B.Sc. (Hons.)

Semester : II

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions.
3. **All** questions carry equal marks.

1. Write short notes on :
 - (a) Isochron methods of dating
 - (b) Explosive and Galactic nucleosynthesis
 - (c) Incompatible and compatible elements
2. How do seismic waves help to understand the layered structure of the Earth?

P.T.O.

3. What are the differences between the following pairs :
 - (a) Airy's model and Pratt's model for isostasy
 - (b) Terrestrial planets and Jovian planets
 - (c) Inosilicate and Tectosilicate
4. Write short notes on the following :
 - (a) Types of solar flares
 - (b) Large Ion Lithophile elements and High Field Strength Elements
 - (c) Paleomagnetism
 - (d) Mantle convection
5. Describe the relationship between the plate tectonics and Wilson cycle.
6. Discuss the role of oxygen isotope in paleoclimatic studies.
7. How does Sm-Nd isotope system help to understand the evolution of crust and mantle through time?
8. What are the different types of rock that can be found in convergent and divergent margins of the Earth?

(200)