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5876					Your	Roll	No.	

B.Sc. (Hons.) Geology / Sem. I

Paper - GEHT-101 - Earth System Science

Time: 3 Hours Maximum Marks: 70

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any five questions.

All questions carry equal marks.

- 1. Discuss the various components of Earth System and interactions amongst them with examples.
- 2. Discuss the origin of Earth's magnetic field. What do you understand by Paleomagnetism? How does paleomagnetism help us to understand paleo-position of continents?
- 3. Write short notes on any two of the following:
 - (a) Mechanical vs Compositional layering of Earth
 - (b) Aurora Borealis and Aurora Australis
 - (c) Principle of Uniformitarianism
- 4. Enumerate various hypotheses of the origin of Earth.

 Discuss the most acceptable hypothesis and explain how is it able to explain the various facts of our solar system.

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- 5. Discuss the distribution of worldwide Earthquake and volcanic belts. In what way the major Earthquake and volcanic belts are related?
 - 6. Write short notes on any two of the following:
 - (a) Distribution of elements in the solar system
 - (b) Isotopic fractionation
 - (c) Principle of faunal succession
 - 7. What is Coriolis effect? Discuss the effect of coriolis force on a fast moving object eastward in northern Hesmisphere.
 - 8. Explain
 - (a) The formation of trade winds
 - (b) Upwelling at the coast of Peru
 - (c) Equatorial bulge of the Earth