

**October 2025**  
**B.A./B.Sc.**  
**First Semester**  
**MINOR – 1**  
**GEOLOGY**  
*Course Code: GLN 1.11*  
(Essentials of Geology)

*Total Mark: 50*  
*Time: 2 hours*

*Pass Mark: 20*

*I. Answer the following questions.*

1. (a) Discuss in detail the different theories proposed for the origin of the Earth. 12

OR

- (b) Discuss the origin and development of the hydrosphere and biosphere. 12

2. (a) What is a volcano? Explain the types of volcanic eruptions and the products they produce. 2+10=12

OR

- (b) Explain the concept of isostasy and describe the Pratt and Airy models. 12

3. (a) What is an unconformity? Explain its major types with neat, labelled diagrams. 2+10=12

OR

- (b) Write a note on each of the following: 6×2=12  
(i) Law of superposition  
(ii) Lithostratigraphy

*II. Answer any two of the following questions.*

4. Briefly explain the terrestrial and Jovian planets. 7  
5. Differentiate between mid-oceanic ridges and magmatic arcs. 7  
6. Explain the geological time scale with its major divisions. 7