

**October 2025**  
**B.A./B.Sc.**  
**First Semester**  
**MULTI-DISCIPLINARY COURSE – 1**  
**GEOLOGY**  
*Course Code: GLO 1.11*  
(Fundamentals of Earth System Science)

*Total Mark: 35*

*Pass Mark: 14*

*Time: 2 hours*

*I. Answer the following questions.*

1. (a) What is geology? Elaborate on its various branches and their applications. 10

OR

- (b) Explain the internal structure of the Earth and the various seismic discontinuities with a neat diagram. 10

2. (a) Explain the structure and composition of the atmosphere with a neat diagram. 10

OR

- (b) Discuss the theory of plate tectonics. Illustrate its importance in understanding the Earth's processes. 10

*II. Write notes on any three of the following:* 5×3=15

3. Heat budget
  4. Terrestrial and Jovian planets
  5. Types of plate boundaries
  6. Sea floor spreading
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