

**2022**  
**B.A./B.Sc.**  
**First Semester**  
GENERIC ELECTIVE – 1  
**GEOLOGY**  
*Course Code: GLG 1.11*  
(Essentials of Geology)

*Total Mark: 70*

*Pass Mark: 28*

*Time: 3 hours*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Explain different branches of geology and its relation with other subjects. 14
2. Write notes on the following: 7×2=14
  - (a) Nebular hypothesis
  - (b) Rotational and revolutionary parameters of the earth

**UNIT-II**

3. Why is hydrosphere important? Explain. 4+10=14
4. Write notes on the following: 7×2=14
  - (a) Composition of sea water
  - (b) Troposphere and stratosphere

**UNIT-III**

5. Explain continental drift theory. Give evidence in support of the theory. 7+7=14
6. Explain sea floor spreading and its mechanism. 14

## UNIT-IV

7. How are earthquakes caused. Explain different types of seismic waves. 7+7=14
8. Write notes on the following: 7×2=14
- (a) Richter scale
  - (b) Earth's magnetic field

## UNIT-V

9. Explain geological time scale. 14
10. Define radioactivity. Explain its application in determining the age of the earth. 2+12=14
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