

**2022**  
**M.Sc.**  
**Second Semester**  
CORE – 6  
**GEOLOGY**  
*Course Code: MGLC 2.21*  
(Stratigraphy and Quaternary Geology)

*Total Mark: 70*

*Pass Mark: 28*

*Time: 3 hours*

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

**UNIT-I**

1. Explain the different factors controlling stratigraphic records. 14
2. Write notes on any two of the following: 7×2=14
  - (a) Lithostratigraphic correlation
  - (b) Biostratigraphic zonation
  - (c) Completeness or incompleteness of stratigraphic records

**UNIT-II**

3. Write an account on seismic stratigraphic records. 14
4. Write notes on the following: 7×2=14
  - (a) Event stratigraphy
  - (b) Sequence stratigraphy

**UNIT-III**

5. Describe igneous and mountain building activity in the Indian subcontinent. 14

6. Write notes on *any two* of the following: 7×2=14  
(a) Palaeolatitude indicators  
(b) Application of oxygen isotope in palaeoclimate  
(c) Tertiary and quaternary palaeogeography

#### UNIT-IV

7. Explain quaternary period and its division. 14
8. Write notes on *any two* of the following: 7×2=14  
(a) Dendrochronology  
(b) Stratigraphic boundary  
(c) Neogene-Quaternary boundary

#### UNIT-V

9. Describe in brief the Himalayan foreland basin. 14
10. Write notes on the following: 7×2=14  
(a) The Kasauli formation  
(b) The Dagshai formation
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