

2024
M.Sc.
Second Semester
CORE – 06
GEOLOGY
Course Code: MGLC 2.21
(Stratigraphy & Quaternary Geology)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Explain the controlling factors on the development of stratigraphic record. 14
2. Write notes on the following: 7×2=14
 - (a) Completeness or incompleteness of stratigraphic records
 - (b) Lithostratigraphic correlation

UNIT-II

3. Write an account on sequence stratigraphy. 14
4. Write notes on *any two* of the following: 7×2=14
 - (a) Event stratigraphy
 - (b) Seismic stratigraphy
 - (c) Chemostratigraphy

UNIT-III

5. How has the palaeogeography of the Indian subcontinent changed over the past 200 million years? 14
6. Write notes on the following: 7×2=14
 - (a) Processes involved in mountain-building activities that shaped the topography of Indian subcontinent

(b) Application of carbon and oxygen isotope

UNIT-IV

7. What are the major subdivision of the quaternary period? How are they defined? Explain how climate and environmental conditions changed during the quaternary period? 14
8. Write notes on the following: 7×2=14
- (a) Principle, application, and limitation of luminescence chronology.
 - (b) Neogene-quaternary boundary

UNIT-V

9. Give a brief account of the quaternary sedimentary records from the coastal plains of India. 14
10. Writes notes on *any two* of the following: 7×2=14
- (a) Himalayan foreland
 - (b) Gangetic plains
 - (c) Central Indian
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