

May 2025
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. Define biostratigraphy. Explain biostratigraphic zonation. 2+12=14
2. Write a note on each of the following: 7×2=14
 - (a) Time significance of biostratigraphy
 - (b) Geochronology and chronostratigraphy

UNIT-II

3. Write an account of chemostratigraphic correlation. 14
4. Write a note on each of the following: 7×2=14
 - (a) Magnetostratigraphy
 - (b) Cyclostratigraphy

UNIT-III

5. What do you understand by palaeoclimate. Give a brief description of the important palaeolatitude indicators. 2+12=14
6. Write a note on each of the following: 7×2=14
 - (a) Mountain building activity in the Tertiary Period
 - (b) Mesozoic palaeogeography of the Indian subcontinent

UNIT-IV

7. What is the Quaternary Period? Give the characteristics of Quaternary Period and comment on the Pleistocene subdivision. 14

8. Write a note on each of the following: 7×2=14
(a) Principle and application of dendrochronology
(b) Cosmogenic radionuclides C¹⁴

UNIT–V

9. Comment on the Quaternary sedimentation of India. Explain the sedimentation in the Indo-Gangetic plains. 14
10. Write a note on each of the following: 7×2=14
(a) Quaternary sedimentary basin of the Brahmaputra plains
(b) Quaternary sedimentary basin of Saurashtra
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