

2023
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. Discuss the controlling factors and significance of time in biostratigraphy. 14
2. Write notes of the following: 7×2=14
 - (a) Lithostratigraphy and stratigraphic code
 - (b) Chrono-stratigraphy

UNIT-II

3. Write an explanatory note on magnetostratigraphy. 14
4. Write notes on the following: 7×2=14
 - (a) Cyclostratigraphy
 - (b) Chemostratigraphic correlation

UNIT-III

5. Give a brief account on stable isotopes and palaeoclimates. 14
6. Write notes on the following: 7×2=14
 - (a) Palaeogeographic reconstruction
 - (b) Igneous activities in the Indian subcontinent

UNIT-IV

7. Discuss briefly about cosmogenic C^{14} dating. 14
8. Write notes on any two of the following: 7×2=14
- (a) Pleistocene-Holocene boundary
 - (b) Anthropocene
 - (c) Principle of dendrochronology

UNIT-V

9. Give a brief account of the sedimentary records from the Son-Narmada valley. 14
10. Write notes on the following: 7×2=14
- (a) Quaternary successions of the Indo-Gangetic plain
 - (b) Sedimentary records of the Brahmaputra plain
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