

2022
M.Sc.
First Semester
CORE – 02
GEOLOGY
Course Code: MGLC 1.21
(Structural Geology & Geodynamics)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Write an account on the concept and types of stress. 14
2. Write notes on any two of the following: 7×2=14
 - (a) Elastic behaviour
 - (b) Definition and types of strain
 - (c) Viscous behaviour

UNIT-II

3. Describe the mechanics of folding. 14
4. Write notes on any two of the following: 7×2=14
 - (a) Strike slip fault
 - (b) Stereographic projection
 - (c) Planar and linear fabrics

UNIT-III

5. Explain the types of plate boundaries and their inter-relationship. 14
6. Write notes on the following: 7×2=14
 - (a) Heterogeneity of earth's crust
 - (b) Seafloor spreading

UNIT-IV

7. Write a detailed account on palaeomagnetism. 14
8. Write notes on the following: 7×2=14
- (a) Heat flow patterns at MOR
 - (b) Polarity reversals

UNIT-V

9. What is neotectonic? Explain the concepts and evidence. 14
10. Write notes on any two of the following: 7×2=14
- (a) Singhbhum Craton
 - (b) Dharwar Craton
 - (c) Origin of Himalaya
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