

2021
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 two dimensional stress analysis. 14
2. Write notes on any two of the following: 7×2=14
 - (i) Concept and type of strain
 - (ii) Viscous behaviour
 - (iii) Confining pressure and temperature on behaviour of materials

UNIT-II

3. Explain the tectonics of thrust faults. 14
4. Write notes on: 7×2=14
 - (i) Mechanics of buckling fold
 - (ii) Cleavage types

UNIT-III

5. Discuss in detail the geological and geophysical evidences of continental drift. 14
6. Write short notes on: 7×2=14
 - (a) Earth's interior
 - (b) Wilson cycle

UNIT-IV

7. What are supercontinental cycles? Explain in detail the fragmentation of Pangaea with special reference to Indian plate. 14
8. Write short notes on: 7×2=14
- (i) Rock magnetism
 - (ii) Polar wandering

UNIT-V

9. Write in detail the anatomy of Himalaya. 14
10. What is a craton? Discuss in detail the Dharwar Craton of India. 2+12=14
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