

2022
B.A./B.Sc.
Third Semester
CORE – 6
GEOLOGY
Course Code: GLC 3.21
(Sedimentary Petrology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. What is weathering? Explain the physical weathering of rocks. 2+12=14
2. Write notes on any two of the following: 7×2=14
 - (a) Soil profile
 - (b) Origin of sediments
 - (c) Two types of chemical weathering

UNIT-II

3. Write an account on particle size distributions and textures. 14
4. Write notes on the following: 7×2=14
 - (a) Terrigenous sedimentary rock
 - (b) Particle shape and fabric

UNIT-III

5. Write an account on laminar and turbulent flow with a neat sketch and explain suspension mode of transport. 14
6. Write notes on any two of the following: 7×2=14
 - (a) Palaeocurrent analysis
 - (b) Graded bedding
 - (c) Mudcracks

UNIT-IV

7. Write an account on sandstone classification with a neat sketch. 14
8. Write notes on the following: 7×2=14
- (a) Particle composition of conglomerate
 - (b) Dolomite

UNIT-V

9. Write an account on diagenesis of sandstone. 14
10. Write notes on the following: 7×2=14
- (a) Compaction
 - (b) Cementation
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