This question paper contains 1 printed page.

Your Roll No.

Sl. No. of Ques. Paper: 2056

GC-3

Unique Paper Code

: 32191302

Name of Paper

: Sedimentary Petrology

Name of Course

: B.Sc. (Hons.) Geology (CBCS)

Semester

: III

Duration:

: 3 hours

Maximum Marks

: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any five questions. All questions carry equal marks

- 1. What is the role of ultimate base level in sedimentation? Describe the source-si approach during the formation of sedimentary rocks.
- 2. What is the difference between millimetre and phy scale? Describe the 4 major classes particle size in sediments. Give a brief note on methods used for measuring the grain s in sediments.
- 3. Discuss the critical features of laminar and turbulent flows and the possible transiti between the two during sedimentation.
- 4. What do you understand by lower and upper flow regimes in sedimentation? Explain you answer in terms of bed form stability diagram with neat sketches and key features of structures.
- 5. What are post-depositional structures? Explain your answer with labelled diagrams of a three such structures occurring in sedimentary records.
- 6. Discuss important criteria followed in classification of sandstones. Give a brief descript with labelled diagram of sandstones following the scheme of William, Turner, and Gilbe
- 7. What are the major components of the carbonate rocks? Discuss the important features allochemical and microcrystalline limestones.
- 8. Discuss the key components of mudrocks. What kinds of sedimentary environments favour formation of black shales?