

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 881

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Your Roll No.....

Unique Paper Code : 219201

Name of the Course : **B.Sc. (Hons.) Geology**

Name of the Paper : Sedimentology [GEHT-201]

Semester : II

Duration : 3 Hours

Maximum Marks : 75

**Instructions for Candidates**

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer any **five** questions.
3. **All** questions carry equal marks.

1. Explain the major attributes used to describe a sedimentary rock. What information can be inferred from each of them ?
2. Explain two fundamental flows and discuss how their transition from one to another can be explained by Reynolds Number.
3. What are primary sedimentary structures ? Explain with neat sketches the sequence of bed forms formed under varying conditions of flow velocity and grain size.
4. Write short notes on any **two** of the following :
  - (a) Black Shale
  - (b) Dolomitization
  - (c) Geode
  - (d) Walther's law of succession of facies
5. What is BIF ? Give its types and explain their origin.

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6. What do you understand by 'heavy mineral's ? How heavy minerals help in the understanding sediment provenance ?
7. Differentiate between the following pairs :
  - (a) Sphericity and roundness of a grain
  - (b) Straight crested and curve-crested ripple
8. Give the classification of terrigenous sandstone given by Prothero and Schwab (2003).