[This question paper contains 2 printed pages.]

Sr. No. of Question Paper: 1695 C 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. Discuss the various attributes of Earth's sedimentary shell and its differentiation through time.
- 2. Explain two fundamental flows and how the transition from one to another can be explained by Reynolds Number.
- 3. What are primary sedimentary structures? Explain with neat sketches the sequence of bedforms formed under varying conditions.
- 4. Give the classification of epiclastic Conglomerates and Breccias.
- 5. Write short notes on any three of the following:
 - (a) Mudrock fabric
 - (b) Diagenesis
 - (c) Walther's law of succession of facies
 - (d) Allochems and Orthochems

6. Describe the non-carbonate biogenic deposits and briefly discuss the principal coal lithotypes.

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- 7. Differentiate between
 - (a) Sphericity and roundness of grain
 - (b) Straight crested and curved crested ripple
- 8. What do you understand by 'heavy mineral"? How heavy minerals help us in understanding sediment provenance?