

**B. Sc. 3<sup>rd</sup> Semester (Honours) Examination, 2021**

**GEOLOGY**

**Course Title: Sedimentology**

**Course ID: 32012**

**Course Code: SHGEL-302C-6(T)**

**Time: 1 Hour 15 Minutes**

**Full Marks: 25**

*The figures in the right-hand side margin indicate full marks.  
Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any five of the following questions: 1×5=5
- a. Define penecontemporaneous deformation structure?
  - b. What kind of pebble imbrications would be expected in a river bed?
  - c. What is neomorphism?
  - d. What do you mean by textural inversion?
  - e. What is stromatolite?
  - f. What is antidune?
  - g. What are terrigenous sediments?
  - h. Define Reynolds number.
2. Answer any two of the following questions: 2×5=10
- a. Compare between siliciclastic and carbonate sedimentations.
  - b. Distinguish between: (i) wave ripple and current ripple; (ii) sphericity and roundness.
  - c. Compare between allochemical and orthochemical constituents of sedimentary rocks.
  - d. Write a short note on Bouma sequence.
3. Answer any one of the following questions: 10×1=10
- a. Diagrammatically discuss Pettijohn's classification of sandstone. Give reasons for selecting the end members of the triangular diagram. 7+3 =10
  - b. Briefly discuss on Udden-Wentworth and Phi-scale of grain size measurement in sedimentary rock and mention their merits and demerits. 6+4=10
-