

**B.Sc. 3rd Semester (Honours) Examination, 2019-20**

**GEOLOGY**

**Course ID : 32012**

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

**Course Title: Sedimentology**

**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. Write *any five* of the following questions: 1×5=5
    - (a) Name the most abundant sedimentary rock.
    - (b) What is the size interval of sand?
    - (c) Name two primary sedimentary structures that indicate sub-aerial exposure condition.
    - (d) Define sphericity.
    - (e) What is micrite?
    - (f) What is stromatolite?
    - (g) What is turbidite?
    - (h) What is conglomerate?
  
  2. Answer *any two* of the following questions: 5×2=10
    - (a) What are the different modes of transportation of sedimentary particles?
    - (b) Define matrix of a sandstone. State Dickinson's classification of matrix.
    - (c) Define roundness of a grain and prove that roundness of a perfectly spherical grain is 1.
    - (d) Give a comprehensive classification of sedimentary rocks.
  
  3. Answer *any one* of the following questions: 10×1=10
    - (a) Briefly describe the characteristics of sedimentary domain with special emphases on processes involved, pressure-temperature conditions, products, texture and structure.
    - (b) Describe the use of primary sedimentary structures in determination of top and bottom of a sedimentary succession.
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