

B. Sc. 2nd Semester (Honours) Examination, 2021

GEOLOGY

Course Id: 22012

Course Code: SHGEL-202C-4(T)

Course Title: Structural Geology

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: 1x5 = 5
 - a. What is a noncylindrical fold?
 - b. Define a graben.
 - c. What is slaty cleavage?
 - d. What is mullion?
 - e. What is recumbent fold?
 - f. What type of repetition is expected if a sequence of layered rocks is subjected to folding?
 - g. Define an enechelon fault.
 - h. What is cleavage fan?

 2. Answer *any two* of the following questions: 5x2 = 10
 - a. Give a comprehensive classification of faults with sketches, based on the attitude of net slip.
 - b. Describe the criteria for recognition of an unconformity.
 - c. Discuss with block diagrams, the orientation of principal axes of stress in normal, reverse and strike slip faults.
 - d. Mention the criteria to discriminate between shear and tension joints.

 3. Answer *any one* of the following questions: 10x1 = 10
 - a. Describe with sketches the uses of axial plane cleavage in geometric analysis of an area.
 - b. Briefly discuss with necessary sketches the characteristics of buckle folds.
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