

**B.Sc. 2nd Semester (Honours) Examination, 2019**

**GEOLOGY**

**(Structural Geology)**

**Paper : 202/C-T4**

**Course ID : 22012**

**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* questions of the following: 1×5=5
    - (a) What is diastrophic structure?
    - (b) What is lineation?
    - (c) Give an example of secondary structure which represents brittle deformation.
    - (d) What is a synformal anticline?
    - (e) What is longitudinal strain?
    - (f) Define anelastic deformation.
    - (g) What is isoclinal fold?
    - (h) What is crenulation cleavage?
  
  2. Answer *any two* questions of the following: 5×2=10
    - (a) Briefly discuss about the mechanism of buckling.
    - (b) Distinguish between the following: (i) Apparent dip and True dip, (ii) Pitch and Plunge.
    - (c) Classify fold on the basic of interlimb angle.
    - (d) Write a short note on different types of strain ellipsoid.
  
  3. Answer *any one* question from the following: 10×1=10
    - (a) Briefly discuss about the application of primary sedimentary and igneous structures in determination of younging direction.
    - (b) Describe with neat sketches about the minor structures associated with faults.
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