PD– 182

(581) M.Sc. GEOLOGY (I SEM.)

Examination : Dec.-2020

Compulsory/Optional

Paper-I

STRUCTURAL GEOLOGY-I

Time: Three Hours] [Maximum Marks: 80

[Minimum Pass Marks: 29

नोट : दोनो खण्डो से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note: Answer from Both the Section as Directed. The figures in the right hand margin indicate marks.

Section -A

1. Answer the following question 1X10
   a. Draw a neat diagram of strain ellipsoid.
   b. Divine the term- Rock-Deformation.
   c. Define the fold Axis.
   d. Give the characteristics of mural joints.
   e. Define the Reverse fault.
   f. Define Ductile shear Zone.
   g. What do you mean by cleavages in rocks.
   h. Define the structure; Lineation.
   i. Give the types of Tectoriter.
   j. Define the Main phase-of Himalayan orogeny

Section -B

2. Answer the following Short question. 2X5
   a. What is relationship between stress & Strain?
   b. Describe the fold geometry.
   c. Write a brief notes on mechanism of faulting.
   d. Define the Plutons.
   e. What are the applications of stereographic projections?

Section -C

Answer all questions: 12X5

3. Write a note on Rock-deformation:-

   OR

   Describe strain ellipsoid & give their geological significance.
4. Give the classification of fold.

   OR

   Write a note on joints and their classification.
5. Give the classification of faults.

   OR

   Write a note on Petrofabroc Analysis.
6. Write a note on Plutons; its role in progressive deformation.

   OR

   Define the lineation and give their types & relation with major structures.
7. Write an essay on Geodynamic Evolution of 'Himalayas'.