2019

B.Sc.

3rd Semester Examination

GEOLOGY (Honours)

Paper - SEC 1-T

Full Marks : 25 Time : 1 Hour

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

Set - I

Field geology - I

Basic field training

Group - A

Answer the following questions : (any *five*) 5×2=10

1. Write the use of Clinometer in the field.
2. Define true dip and apparent dip.
3. What is the difference between front and back bearing ?

[Turn Over]

4. Write the name of structural features identified by you in field.

5. What types of lithological unit(s) are identified by you in the field ?

6. What is topographic map ?

7. Write the stratigraphic position of your field area.

8. What type of instrument is used to locate our position in field ?

Group - B

Answer any *three* questions : 3×5=15

1. Write a short note on Stratigraphic significance of the field area.

2. Write a note on the sedimentary structure found in the field with neat sketch.

3. Describe briefly about the general structural features of the field area.

4. Give a short account of techniques of measurement of orientation data in field.

5. Briefly discuss about the lithology of the field area.

Set - II

Field geology - II

Geological Mapping and Structural Geology

Group - A

Answer any *five* questions : 5×2=10

1. What is the difference between Wolf and Smidth's net ?
2. Define the terms pitch and plunge.
3. Write the name of rock types found in the field.
4. Write the use of GPS.
5. How do you distinguish foliation and lineation in field?
6. What is the difference between fault and joint ?
7. How do you locate yourself in toposheet of the field area.
8. How do you demarket the hilly area and valley area in toposheet ?

[Turn Over]

Group - B

Answer the following questions : (any *three*) $3\times5=15$

1. Write a short note about the instruments used in structural mapping.

2. Give a brief note about the foliation and lineation found in the field area.

3. Describe the criteria to identify the fault plane in field.

4. Briefly describe about the lithology of the study area.

5. Give a short note on field techniques used in field at the time of geological mapping.