

2 0 1 4

(November)

GEOLOGY

(Major)

Course : 507

(Surveying and Field Mapping)

Full Marks : 48

Pass Marks : 19

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

(Surveying)

(Marks : 24)

1. Write short notes on any *two* of the following : 3×2=6
- (a) Geodetic and plane surveying
 - (b) Methods of compass traverse
 - (c) Levelling

Or

Write briefly on triangulation and traversing. 6

2. What are the different methods of measuring horizontal distances? 6
3. Describe the procedure for set-up of plane table during surveying. 6
4. Write briefly on any *four* of the following : $1\frac{1}{2}\times 4=6$
- (a) Bearing and azimuth
 - (b) Datum and mean sea level
 - (c) Bench mark
 - (d) Contour line and contour interval
 - (e) Index contour

(**Field Mapping**)

(Marks : 24)

5. What are the different types and methods of geological mapping? 6
6. Write short notes on any *two* of the following : $3\times 2=6$
- (a) Collection of useful information from outcrops and exposures
 - (b) Plotting of geological data on base map
 - (c) Calculation of stratigraphic thickness

7. How are geological reports prepared from field data? What are the contents of a geological report? 4+2=6

Or

Write on the measurement taken in the field for bedding, foliation, lineation, fold and joints. 6

8. Write about the procedures of drawing geological cross-section. 6
