

REVISED COURSE)**(3 Hours)****[Total Marks : 80**

- N.B. :** (1) Question no **1** is **compulsory**.
 (2) Attempt any **three** questions out of remaining **six**.
 (3) Draw sketches wherever necessary.
 (4) Figures to the right indicate full marks.

1. (a) Explain the following terms in brief 10
- | | |
|-------------------------------|------------------------|
| (i) Cleavage | (ii) Dykes |
| (iii) Phacolith | (iv) Core recovery |
| (v) Mohorovicic discontinuity | (vi) Intermediate rock |
| (vii) Texture | (viii) Exfoliation |
| (ix) Water table | (x) Volcanic tuff |
- (b) Name the following. 6
- (i) Two minerals show basal pinacoid cleavage.
 - (ii) Fold with sharp crest and trough and planar limbs.
 - (iii) Parent rock of marble.
 - (iv) Geological agent responsible for the formation of hanging valley.
 - (v) Layered structure where thickness of each layer is less than 1cm.
 - (vi) The structure shows linear arrangement of platy and flaky minerals.
- (c) Draw neat labelled sketch of the following. 4
- (i) Horst and Graben
 - (ii) Recumbent fold
2. (a) Describe two landforms each created by depositional action of glacier and running water. 10
- (b) Describe various textures of igneous rocks with proper diagram 10
3. (a) Describe the quartz family of minerals . 10
- (b) Define fold and explain the types of folds on the basis of behaviour with depth. 10
4. Write the difference between 20
- (a) Graded bedding and Ripple marks.
 - (b) Mechanical weathering and chemical weathering.
 - (c) Dip-slip fault and strike-slip fault.
 - (d) Plutonic rock and volcanic rock.

5. Explain the following in short.(any 4) 4*5=20
- (a) Elastic rebound theory.
 - (b) Factors that influence landslides..
 - (c) Principles of stratigraphy.
 - (d) Qualities of good building stones.
 - (e) Water bearing properties of rocks.
6. (a) Enumerate the suitable and unsuitable geological structures for tunnel construction. 10
- (b) What are the advantages and disadvantages of subsurface geological investigation. Describe any one indirect method of investigation 10
