

Q.P.Code: 017073

## 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.

TURN OVER

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