

S E Civil III CBGS

Engg. Geology

01.6.15

Q.P. Code : 4764

REVISED COURSE

(3) Hours

Total Marks : 80

- N.B. 1. Question No. 1 is compulsory  
 2. Attempt any three questions out of remaining five questions.  
 3. Draw neat labeled diagrams wherever necessary.  
 4. All the parts of a question should be grouped together.  
 5. Figures to the right indicate marks

1. (i) Write the identifying properties and economic use of the following minerals. 5  
 (a) Calcite  
 (b) Graphite  
 (c) Kyanite  
 (d) Gypsum  
 (e) Asbestos
- (ii) Define the following terms. 10  
 (a) Delta  
 (b) Seismograph  
 (c) Water Table  
 (d) Mantle  
 (e) Sill  
 (f) Ox-bow lake  
 (g) Petrology  
 (h) Stratification  
 (i) Thermal metamorphism  
 (j) Fault
- (iii) Name the following 5  
 (a) A Landform created by wind  
 (b) A discordant igneous body  
 (c) A part of Dam which is used to release excess water from the reservoir.  
 (d) The discontinuity which separates crust from mantle  
 (e) Parent rock for slate
2. (i) Give a brief account of various types of Folds in the rocks 10  
 (ii) What is the Order of Superposition and what is its significance? 6  
 (iii) Draw a neat labeled diagram showing horst and graben structure. 4

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3. (i) Discuss the favourable and unfavourable geological structures for dam construction. 10  
(ii) Describe Seismic method of geological exploration. 5  
(iii) What are the various types of Landslides and their preventive measures? 5
4. (i) Write a note on formation of Igneous rocks and describe various textures of these rocks. 10  
(ii) What are the zones of groundwater? Describe different types of aquifers. 10
5. (i) Describe the various landforms created by Glaciers. 10  
(ii) Write a note on economic importance of Deccan Traps 5  
(iii) What is RQD? Explain its significance. 5
6. Differentiate between any 5 of the following- (4x5=20)  
(a) Crater and Caldera  
(b) Fracture and cleavage  
(c) Angular unconformity and Disconformity  
(d) Pot holes and cirques  
(e) Mechanical and Chemical weathering  
(f) Dip and Strike  
(g) Stalactite and Stalagmite