Max. Marks: 70

B.Tech III Year I Semester (R15) Supplementary Examinations June 2018 ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Explain importance of geology in civil engineering.
 - (b) Write a note on weathering agents.
 - (c) Describe mineral.
 - (d) Discuss cleavage and diaphinity.
 - (e) Enumerate the important silica based igneous rocks.
 - (f) Difference between insitu soil and drift soil.
 - (g) What is landslide?
 - (h) Write a note on springs.
 - (i) Discuss the application of grouting.
 - (j) Give the effects of earthquake.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

2 Discuss the importance of geology in civil engineering construction.

OR

3 Define weathering. Describe the process of mechanical weathering.

UNIT – II

4 Explain the physical properties of minerals.

OR

5 What is structure? Explain the type of primary structure noticed in sedimentary rocks.

(UNIT – III)

6 What is fold? Write types of folds with neat sketches.

OR

7 Write a note on ground water and ground water exploration technique.

UNIT – IV

8 Explain Richter scale and precautions to be taken for, building construction is seismic areas.

OR

9 Explain the principles of gravity & magnetic methods.

UNIT – V

10 Describe the geological factors to be considered in the selection of dam site.

OR

11 Explain role of geology is the construction of tunnel.

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