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

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: $(10 \times 02 = 20 \text{ Marks})$
 - (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, $5 \times 10 = 50 \text{ Marks}$)

UNIT – I

2 Discuss the importance of geology in civil engineering construction.

OR

3 Define weathering. Describe the process of mechanical weathering.

UNIT - IL

4 Explain the physical properties of minerals.

OR

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

UNIT – III

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

OR

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

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

OR

11 Explain role of geology is the construction of tunnel.
