

Code: 15A01504

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 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)

UNIT – I

- 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 in 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 in the construction of tunnel.
