

Code: 9A01505

B.Tech III Year I Semester (R09) Supplementary Examinations June 2017

ENGINEERING GEOLOGY

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Distinguish between weathering and erosion. Describe the various processes of weathering
- 2 Explain in detail different methods of study of minerals. Discuss the relative advantages and disadvantages of the methods
- 3 Describe the following rocks. Add a note on their occurrence and uses:
 - (a) Dolerite.
 - (b) Conglomerate.
 - (c) Sand stone.
- 4 Describe the different types of unconformities and discuss the criteria for their recognition
- 5 What is an earthquake? Discuss causes of earthquakes. Describe in brief the nature of various earthquake waves
- 6 Explain the radiometric method with the help of a neat diagram. Also discuss the equipment used and field applications of it.
- 7 Give importance of the geological survey of the dams and reservoirs. Outline the scheme of doing the geological investigation.
- 8 Explain about:
 - (a) Earth pressure theory.
 - (b) Rock pressure theory.
 - (c) Over bank.
 - (d) Draw down effects.
