

R09**Code: 9A01505****B.Tech III Year I Semester (R09) Supplementary Examinations June 2016****ENGINEERING GEOLOGY****(Civil Engineering)**

Time: 3 hours

Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 What is meant by chemical weathering? What are the principal agents of chemical weathering and also discuss the importance of weathering in Civil Engineering?
- 2 What are secondary minerals? How are they formed? Add a note on their significance in rocks.
- 3 Write detailed note on:
 - (a) Magma.
 - (b) Lava.
 - (c) Sédiment.
- 4 Define faults. Describe the various parts of fault. Explain the effects of the different types of faults on the outcrop of strata.
- 5
 - (a) What is Ground water? Describe Groundwater zones and their characteristics.
 - (b) Describe the geological action of Groundwater.
- 6 What is meant by geothermal methods? Discuss the principle, equipment used and field applications of geothermal methods
- 7 With the help of a neat sketch, describe the parts of a dam .Also outline dam problems
- 8 Briefly describe various stages of geological investigations for tunnel alignment. Add a note about the geotechnical report on tunneling.
