

Code: CE3T4

II B.Tech-I Semester–Regular Examinations–December 2015

**ENGINEERING GEOLOGY
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

- 1 a) What is Denudation?
- b) Give an example for Adamantine Lustre.
- c) What is a Special Property of Calcite?
- d) Name an Extrusive igneous rock.
- e) What are Dip and Strike?
- f) What is a Hanging Wall?
- g) What is a confined Aquifer?
- h) What is an Arch Dam?
- i) How a Dyke is different from a sill?
- j) How P wave is different from S waves in seismology?
- k) What is an OVER BREAK?

PART – B

Answer any **THREE** questions. All questions carry equal marks. 3 x 16 = 48 M

- 2 a) List out the different branches of Geology and briefly explain their role in Civil Engineering. 8 M
- b) How do you define a Mineral. 8 M
- 3 Compare 16 M
- a) Muscovite Mica and Biotite Mica.
- b) Quartz and Feldspar
- c) Haematite and Magnetite
- 4 Explain the mineralogical composition properties and uses of
- a) Granite b) Sand stone c) Gneiss 16 M
- 5 With neat sketches describe the various types of folds. 16 M
- 6 a) What are the factors to be considered for the selection of site for the alignment of a Dam? 8 M
- b) With neat sketches explain the alignment of tunnels through dipping beds. 8 M