

Roll No

CE-3005 (CBGS)**B.E. III Semester**

Examination, May 2018

Choice Based Grading System (CBGS)**Geology***Time : Three Hours**Maximum Marks : 70*

- Note:* i) Attempt any five questions, out of eight questions.
 ii) All questions carry equal marks.

1. a) What is weathering? Describe the different types of weathering.
 b) Describe application of geology in civil engineering.
2. a) What is crystal and mineral. Classify the crystal systems.
 b) Describe the internal structure of the earth.
3. a) Write notes on:
 - i) Hardness
 - ii) Lusture
 - iii) Clearage
 b) Discuss the various physical properties of following minerals:
 - i) Quartz
 - ii) Calcite
 - iii) Mica

4. What is Textures? Describe the different types of texture in igneous rock.
5. a) Explain the classification of sedimentary rocks with examples?
 b) Explain the metamorphic texture and structures.
6. Write notes on the following:
 - a) Granite
 - b) Conglomerate
 - c) Limestone
 - d) Marble
 - e) Schist
7. a) Discuss the various geological requirements for site selection of Dam.
 b) Application of remote sensing techniques in a selection of sites in civil engineering.
8. a) What is fault? Classify the different types of faults on the basis of mode of occurrence / genesis.
 b) Write notes on:
 - i) Crushing strength
 - ii) Porosity
 - iii) Dip
