

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

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

Examination, December 2017

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

- Note:** i) Attempt any five questions from eight questions.
 ii) All questions carry equal marks.
 iii) Assume suitable data if missing.
 iv) Questions Number 1 to 7 each part (a) and (b) carries equal marks distribution.

1. a) What are various geological classification of soils? Explain.
 b) What do you understand by "Plate Tectonics Theory"? Explain.
2. a) Define "Ore" and "Rock"? Also explain the importance of Study of Crystallography in Civil Engineering.
 b) What is "Mineralogy"? Also give its importance in Civil Engineering.
3. a) List out various rocks used in civil engineering construction works.
 b) Give classification of Rocks. Define any one rock in detail.

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4. a) Write a brief note on geological history of India.
 b) Give Zonal Occupancy of minerals and ores which are used in civil engineering works.
5. a) What are various types of folds? Explain with salient points.
 b) In what way study of folds and faults can help construction works in seismic zones. Explain in detail.
6. a) What do you understand by Applied Geology?
 b) What are the criteria of site selection for Dam construction? Explain.
7. a) What is Remote Sensing? How it acts as a powerful tool for civil engineering works?
 b) What are various properties of Rocks? Explain in detail.
8. Write a brief note on:
 - i) Artesian Well
 - ii) Scale of Hardness
 - iii) Dip and Strike
 - iv) Metamorphic Rocks
 - v) Outcrops

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