

Total No. of Questions : 10] [Total No. of Printed Pages : 2

Roll No.

CE-304

B. E. (Third Semester) EXAMINATION, June, 2009

(Old Scheme)

(Civil Engg. Branch)

ENGINEERING GEOLOGY

(CE-304)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Answer any *five* questions taking *one* question from each Unit. All questions carry equal marks. Internal choice is given in each question.

Unit – I

1. Explain earthquake phenomena. Draw diagram for different types of E. Q. waves along with their properties. How E. Q. affects surface of the earth ? What are the remedies you should suggest to minimize effects of E. Q. on Civil Engineering structures ?

Or

2. What is Remote Sensing Technology ? Draw reflectance diagram. Explain in brief of visual interpretation techniques. Give any *one* application of remote sensing technology in Civil Engineering structures.

Unit – II

3. What are the rock forming minerals ? Explain various hand specimen properties with suitable examples.

Or

4. Explain physical properties of minerals with suitable example and economic importance.

Unit – III

5. Draw rock cycle. How sedimentary rocks can be classified and describe various main engineering properties of such type of rock with suitable example.

Or

6. Draw rock cycle. How metamorphic rocks can be classified and describe various main engineering properties of such type of rocks with suitable example ?

Unit – IV

7. Explain folding and its classification in brief. What are the main effects that have been observed while planning Civil Engg. construction specially dam construction ?

Or

8. Explain unconformities and its classification in brief . What are the main effects that have been observed while planning Civil Engg. construction ?

Unit – V

9. Define tunnel structure, its terminology and classification. Explain modern and conventional methods of site selection with suitable examples.

Or

10. Explain subsurface, surface, aerial, satellite based Civil Engineering survey with interpretation techniques and suitable examples.