Reg. No.

Question Paper Code : **57141**

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Third Semester

Civil Engineering

CE 6301 – ENGINEERING GEOLOGY

(Regulations 2013)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. What is meant by soil profile ? List the informations that are to be provided in soil profile.

2. Write a note on Sea cliff with neat diagram.

3. What is meant by Moh's scale of hardness ?

4. Differentiate between cleavage and fracture.

5. Difference between concordant bodies and discordant bodies.

6. What do you mean by granulation in metamorphic petrology ?

7. What is meant by a Recumbent folds ? Draw a neat diagram.

8. What is meant by Wenner's Arrangement ? Draw a neat diagram.

9. Define the term Dead storage in reservoir.

10. What is meant by "Rock bolting" ? Draw a neat diagram.

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PART – B (5 × 16 = 80 Marks)

11. (a) Write an essay on weathering of rocks and its significance in engineering point of view.

    OR

    (b) Give a general view of Internal Structure of the Earth as revealed by the seismological evidence.

12. (a) Give salient features and mention important properties of Feldspar group of minerals.

    OR

    (b) Explain Amphibole group of minerals.

13. (a) Write an essay on engineering properties distribution and uses of granite.

    OR

    (b) How would you differentiate between igneous rock, metamorphic rock and sedimentary rock on the basis of structure and texture ?

14. (a) Explain gravity method in geophysics.

    OR

    (b) Write a note on faults, their causes and effects on the engineering quality of rocks.

15. (a) Give an account of causes of inherent weakness in rocks. How rock qualities could be improved by artificial treatment.

    OR

    (b) What do you understand by a 'dam disaster' ? Discuss these geological situations which when ignored could be the cause of the possible dam disaster.

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