CE-304

http://www.rgpvonline.com

Total No. of Questions :5]

[Total No. of Printed Pages: 2

Roll No

CE-304

B.E. III Semester

Examination, December 2016

Engineering Geology

Time: Three Hours

Maximum Marks: 70

http://www.rgpvonline

- Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 - ii) All parts of each question are to be attempted at one place.
 - iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 - iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- What are the agents of Mechanical Weathering?
 - Write a note on "Nebular Hypothesis".
 - Name and describe the three types of plate boundaries.
 - Discuss the geological classification of Soils.

OR

Discuss the internal structure of the earth with neat sketch.

Unit - II

- Define mineral and ore with examples.
 - What are rock forming minerals?
 - Name and define the symmetry elements of a crystal.
 - List the various physical properties of minerals. Describe Hardness and Habit or forms in detail.

OR

CE-304

http://www.rgpvonline.com

[2]

Give the chemical composition and physical properties of Calcite, Hematite and Quartz.

Unit - III

- Write a note on structural features of Sedimentary Rocks.
- Write a note on agents of Metamorphism.
- Explain different forms of Igneous Rocks.
- Describe the different physical divisions of India.

OR

How rocks are classified? Give the main characteristics of each major class.

http://www.rgpvonline.com

http://www.rgpvonline.com

Unit - IV

- Distinguish between Dip and Strike.
 - Write a note on Parts of Fault.
 - Distinguish between normal and reverse fault.
 - Classify and describe with neat sketches the different types of folds in rocks.

OR

What are Unconformities? Discuss their various types.

Unit - V

- http://www.rgpvonline.com Write a note on Water bearing strata.
 - Name and define various engineering properties of rocks.
 - Write a note on factors affecting stability of bridges.
 - What is Remote Sensing? Explain the use of Remote Sensing in selection of various civil engineering structures.

OR

Discuss the role of geological aspects in construction of Dams.

PTO