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Third Semester B.E. Degree Examination, Dec.17=i1020

Engineering Geology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss the scope of Geology in the field of Civil Engineering. (06 Marks)
- b. Explain the Internal structure and Composition of Earth, with neat sketch. (08 Marks)
- c. Write description of any two carbonate group of minerals. (06 Marks)

OR

- 2 a_ Explain the physical properties of Mineral Hardness, Luster, Structure and Fracture. (12 Marks)
- b. Write the description of Minerals :
 i) Asbestos Galena iii) Hematite iv) Gypsum_ (08 Marks)

Module-2

- 3 a. Define Igneous Rocks. Explain Formation and Forms of Igneous Rocks. (08 Marks)
- b. Write short note on Metamorphism. (06 Marks)
- c. Explain briefly Soil profile and Drainage patterns. (06 Marks)

OR

- 4 a_ Write briefly selection of Rocks as materials for construction. (10 Marks)
- b. Explain the classification of sedimentary rocks and write the description of Sand stone and Conglomerate. (10 Marks)

Module-3

- 5 a_ Define Fault. With relevant sketch, explain parts and type of faults. (12 Marks)
- b. Write short note on Rock Quality Determination and Rock Structure Rating. (08 Marks)

OR

- 6 a_ Define Dip and Strike. Discuss briefly selection of site for Dams. (12 Marks)
- b_ Write difference between Faults and Joints. (08 Marks)

Module-4

- 7 a. What is Aquifers? With neat sketch, explain types of Aquifers. (10 Marks)
- b. Discuss the Artificial Recharge and Rain Water Harvesting Methods_ (10 Marks)

OR

- 8 a. Explain with a neat sketch, Ground Water Investigation by Electrical Resistivity Method. (10 Marks)
- b. Write short note on Hydrological cycle and Water pollution_ (10 Marks)

Module-5

- 9 a. Define Earthquake_ With a neat sketch, explain Seismograph. (08 Marks)
- b. Write briefly Development of Remote Sensing. (06 Marks)
- c. Define Topography and Contour Maps_ (06 Marks)

OR

- 10 Write short note on
 a. Global positioning system b. Tsunami.
 c. Soil creep. **www.FirstRanker.com** components of GIST (420 Marks)

Important Note : 1. On completing your answer, compulsorily draw diagonal lines across the page. 2. Any revealing of identification, appeal to evaluator and/or other persons is strictly prohibited.