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Third Semester B.E. Degree Examination, June/July 2019 Mining Geology - I

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Write neat diagram wherever necessary.**

Module-1

- 1 a. With a neat sketch. Describe the internal structure and composition of earth. (10 Marks)
b. Briefly explain the Geological work of ground water with special reference to their influence on mining engineering work. (10 Marks)

OR

- 2 a. Describe the geological work of glaciers. (10 Marks)
b. What is Volcano? Describe the control types of volcano. (10 Marks)

Module-2

- 3 a. Write short note on :
i) Streak in minerals with suitable examples.
ii) Moh's scale of Hardness. (10 Marks)
b. What are Igneous rocks? How are they formed? Explain the classification of Igneous rocks. (10 Marks)

OR

- 4 Explain the physical properties, chemical composition and uses of
i) Calcite and its varieties (10 Marks)
ii) Biotite mica (10 Marks)

Module-3

- 5 Describe the texture, structure mineral composition and uses of
i) Granite and Basalt (10 Marks)
ii) Pegmatite and slates. (10 Marks)

OR

- 6 Describe the texture, structure, mineral composition occurrence and uses of
i) Dunite and sandstone (10 Marks)
ii) Gneiss and shale (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-4

- 7 a. What is correlation? Explain the different types of correlation. (10 Marks)
b. Explain the physico – geographical division of India. (10 Marks)

OR

- 8 a. Explain the Cuddapah group of rocks. Add a note on economic importance. (10 Marks)
b. Write a short note on :
i) Uniformitarianism
ii) Fossil and their uses. (10 Marks)

Module-5

- 9 a. What are primary structures? Explain primary structure. (10 Marks)
b. What is an unconformity? Explain the different types of unconformity. (10 Marks)

OR

- 10 a. Explain dip and strike. How it is measured using compass clinometer. (10 Marks)
b. What are folds? Explain the different types of fold and its importance. (10 Marks)

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