

CBCS Scheme

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Third Semester B.E. Degree Examination, Dec.2017/Jan.2018 Mining Geology – I

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain the interval structure and composition of the earth. (08 Marks)
b. Briefly explain the geological work of ground water with special reference to their influence on mining engineering sectors. (08 Marks)

OR

- 2 a. What are glaciers? Explain the geological work of glaciers. (08 Marks)
b. Explain seismic hazards. Describe engineering protection against earth quakes. (08 Marks)

Module-2

- 3 a. Explain the physical properties of minerals. Give examples. (08 Marks)
b. Describe the MiCa group of minerals. (08 Marks)

OR

- 4 a. Explain the classification of rocks with examples. (08 Marks)
b. Briefly explain the classification of sedimentary rocks based on grain size. (08 Marks)

Module-3

- 5 a. Explain : i) Granite ii) Dunite iii) Basalt iv) Rhyolite (08 Marks)
b. Explain : i) Dolerite ii) Pegmatite iii) Gabbro iv) Diorite (08 Marks)

OR

- 6 a. Explain : i) Lime stone ii) Conglomerate iii) Sand stone iv) Shale (08 Marks)
b. Explain : i) Schist ii) Marble iii) Gneiss iv) Slate (08 Marks)

Module-4

- 7 a. What is correlation? Explain the different types of Correlation. (08 Marks)
b. Explain Law of order of super position fossil and their uses. (08 Marks)

OR

- 8 a. Explain the physic-geographic divisions of India. (08 Marks)
b. Give an account of the Cuddapal super group of rocks, with their economic importance. (08 Marks)

Module-5

- 9 a. What are primary structures? Explain primary structures. (08 Marks)
b. Explain dip and strike how it is measured using compass clinometers. (08 Marks)

OR

- 10 a. Explain classification of faults. Add a note on its importance in mining operation. (08 Marks)
b. What is an unconformity? Explain the different types of unconformity. (08 Marks)

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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 e.g. 42+8 = 50, will be treated as malpractice.