

CBCS Scheme

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Third Semester B.E. Degree Examination, June/July 2018 Mining Geology – I

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Define "Geology" and its branches, why should a mining engineer learn geology? (08 Marks)
b. Describe the internal structure and composition of earth. (08 Marks)

OR

- 2 a. Explain the geological work of wind, with neat sketches describe the development of pedestal rock. (08 Marks)
b. Explain the geological work of Running water, write note son meanders. (08 Marks)

Module-2

- 3 a. What are rocks? Explain the types of rocks with examples. (08 Marks)
b. Write short notes on structures like
i) Vesicular and anygdoloidal
ii) Stratification. (08 Marks)

OR

- 4 a. Describe the classification of sedimentary rocks according to their grain size. (08 Marks)
b. What are metamorphic rocks? Describe the agents responsible for metamorphism. (08 Marks)

Module-3

- 5 Briefly explain the physical properties of
a. Granite
b. Basalt. (16 Marks)

OR

- 6 Describe the physical features of metamorphism rock
a. Slate
b. Schist. (16 Marks)

Module-4

- 7 a. What is stratigraphy? (04 Marks)
b. Define 'Correlation'. (04 Marks)
c. What are 'fossils' mention their uses (08 Marks)

OR

- 8 a. Explain physio-graphic division of India. (08 Marks)
b. Describe "law of order of super-position". (08 Marks)

Module-5

- 9 a. What are primary structure and secondary structures? (08 Marks)
b. What are 'folds'? Briefly explain the parts of folds, with a diagram. (08 Marks)

OR

- 10 a. With a help of a neat diagram describe compass clinometers. (08 Marks)
b. What are 'Joints'? Describe sheet joints and columnar joint with diagrams. (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 eg, 42+8 = 50, will be treated as malpractice.