

CBCS SCHEME

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17MN33

Third Semester B.E. Degree Examination, Dec.2018/Jan.2019

Mining Geology - I

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What is Mining Geology? Add a note on the role of Geology in Mining Industry. (10 Marks)
b. With a neat sketch, Describe the internal structure and composition of earth. (10 Marks)

OR

- 2 a. Explain the geological action of wind. Describe the development of pedestal rock. (10 Marks)
b. Explain seismic hazards. Describe engineering protection against earth quakes. (10 Marks)

Module-2

- 3 a. Explain the physical properties of minerals. Give example. (10 Marks)
b. Explain the Quartz group of minerals. (10 Marks)

OR

- 4 a. What are rocks? Explain the types of rocks with examples. (08 Marks)
b. What is sedimentary rock? Explain the classification of sedimentary rocks based on grain size. (12 Marks)

Module-3

- 5 Briefly explain the physical properties of
i) Granite ii) Gabbro iii) Dynite iv) Basalt (20 Marks)

OR

- 6 Describe the physical features of following rocks :
i) Sandstone ii) Shale iii) Gneros iv) Marble. (20 Marks)

Module-4

- 7 a. What is Geological Time Scale? (10 Marks)
b. What is a fossil? Mention the types of fossil and their uses. (10 Marks)

OR

- 8 a. Explain Physio-graphic divisions of India. (10 Marks)
b. Give an account of the Dharwar group of rocks. Add a note on their economic importance. (10 Marks)

Module-5

- 9 a. With a neat sketch, describe any three Primary Structure noticed in rocks. (10 Marks)
b. Write short note on : i) Dip and Strike ii) Compass Clinometers. (10 Marks)

OR

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