



CBCS SCHEME

18MN36

Third Semester B.E. Degree Examination, Dec.2019/Jan.2020 Mineralogy Petrology and Stratigraphy

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain the internal structure and composition of the earth. (10 Marks)
b. Briefly explain the geological work of ground water with special reform to their influence on mining engineering sectors. (10 Marks)

OR

- 2 a. What are earthquake? Explain their causes and effects. Add a note on engineering protection against earth quake. (10 Marks)
b. Explain the geological action of wind. Describe the development of pedestal rock. (10 Marks)

Module-2

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

OR

- 4 a. Explain the origin, Occurrence and distribution of copper deposit in India. (10 Marks)
b. Write note on Indian distribution of Lead and Zinc deposits. (10 Marks)

Module-3

- 5 a. What are Igneous rocks? How are they formed? Explain the classification of Igneous rocks with suitable examples. (12 Marks)
b. Write a note on, forms of Igneous rock with neat sketch. (08 Marks)

OR

- 6 Write the texture, structure, mineral composition occurrence and uses of the following rocks.
i) Granite ii) Dolerite iii) Basalt iv) Rhyolite. (20 Marks)

Module-4

- 7 a. What is sedimentary rock? Explain the classification of sedimentary rocks based on grain size. (10 Marks)
b. Explain : i) Limestone ii) Sandstone iii) Conglomerate iv) Shale. (10 Marks)

OR

- 8 a. What is metamorphism? Explain the agents of metamorphism. (12 Marks)
b. Explain : i) Marble ii) Gneiss iii) Slate iv) Quartzite. (08 Marks)

Module-5

- 9 a. What is correlation? Explain the different types of correlation. (10 Marks)
b. What are fossils? Explain their uses. (10 Marks)

OR

- 10 a. Explain geological clock and Law of order of super position. (08 Marks)
b. Given an account of the Dharwar group of rocks. Add a note on their economic importance. (12 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.