



CBCS SCHEME

15MN62

Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Mineral Processing and Fuel Technology

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Write a detailed note on Peat. (08 Marks)
b. Write a detailed note on Petroleum. (08 Marks)

OR

- 2 a. Write a detailed note on low temperature carbonization. (08 Marks)
b. Write a detailed note on high temperature carbonization. (08 Marks)

Module-2

- 3 a. Discuss in detail about the objectives of mineral processing. (08 Marks)
b. Discuss in detail about the scope of mineral processing. (08 Marks)

OR

- 4 a. With neat sketch, explain the principles of communication. (12 Marks)
b. Discuss in detail about the objectives of communication. (04 Marks)

Module-3

- 5 a. With a neat sketch, explain the working principle of Gyratory crusher. (08 Marks)
b. With a neat sketch, explain the working principle of ball mill. (08 Marks)

OR

- 6 a. With neat sketch, explain the working principle of stationary grizzly. (08 Marks)
b. With neat sketch, explain the working principle of hydrocyclone. (08 Marks)

Module-4

- 7 a. With a neat sketch, explain the concept of hindered settling. (08 Marks)
b. With a neat sketch, explain the working principle of shaking table. (08 Marks)

OR

- 8 a. Discuss in detail about the flotation reagents. (08 Marks)
b. Discuss in detail about the magnetic method of concentration. (08 Marks)

Module-5

- 9 a. Discuss in detail about the washability of coal. (08 Marks)
b. With neat sketch, explain the working principle of thickening/sedimentation. (08 Marks)

OR

- 10 a. With a neat sketch, explain the working principle of filtration. (08 Marks)
b. Explain the beneficiation flow sheet of copper. (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.