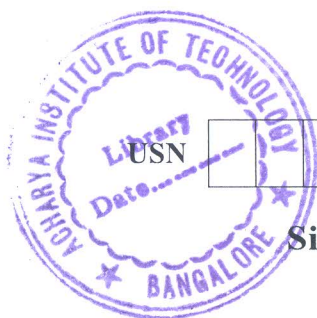


CBCS SCHEME

15MN62



Sixth Semester B.E. Degree Examination, Aug./Sept.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. Discuss in detail about Peat. (08 Marks)
b. Write a note on ultimate analysis. (08 Marks)

OR

- 2 a. Write a note on liquid fuel. (08 Marks)
b. Write a note on high temperature carbonization. (08 Marks)

Module-2

- 3 a. Discuss in detail about the scope of mineral processing. (08 Marks)
b. Write a note on liberation. (08 Marks)

OR

- 4 a. Discuss about the different theories of communication. (10 Marks)
b. Write a note on stages of communication. (06 Marks)

Module-3

- 5 a. With a neat sketch, explain the working operation of Jaw Crusher. (08 Marks)
b. With a neat sketch, explain the working principle of Ball mill. (08 Marks)

OR

- 6 a. Explain the importance of sizing. (08 Marks)
b. With a neat sketch, explain the working principle of vibrating screen. (08 Marks)

Module-4

- 7 a. With a neat sketch, explain the working principle of jigging. (08 Marks)
b. Discuss about the physio-chemical properties of flotation. (08 Marks)

OR

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

Module-5

- 9 a. With a neat sketch, explain about the washability curve. (08 Marks)
b. With a neat sketch, explain about the thickening procedure in dewatering. (08 Marks)

OR

- 10 a. With a neat sketch, explain about the filtration method of dewatering. (08 Marks)
b. Draw the flow sheet of Copper and explain the same in detail. (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.