

CBCS SCHEME

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15MN52

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Mine Mechanization- II

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain with sketch the working of a Roto pump. State the advantages of such pump. (08 Marks)
b. Explain with sketch the supporting of water pipe line in Mine shafts. (08 Marks)

OR

- 2 a. Explain with sketch working of centrifugal pump. (08 Marks)
b. Explain characteristics curves for Turbine pumps. (08 Marks)

Module-2

- 3 With neat sketch, explain shears, their application, limitation and specification. (16 Marks)

OR

- 4 With neat sketch, explain coal ploughs their application, limitation and specification. (16 Marks)

Module-3

- 5 a. With neat sketch, explain working of Rocker shovel. (08 Marks)
b. With neat sketch, explain working application and limitation of LHD. (08 Marks)

OR

- 6 Explain the working of Hydraulic prop with neat sketch. (16 Marks)

Module-4

- 7 a. With neat sketch, explain Transport of Materials using Belt Conveyor with its relative advantages and limitations. (10 Marks)
b. Explain Scrapper Chain conveyor with its advantage and disadvantage. (06 Marks)

OR

- 8 a. Explain with neat sketch Cable Belt Conveyor. (08 Marks)
b. With neat sketch, explain shuttle car. (08 Marks)

Module-5

- 9 Discuss briefly machinery maintenance management and safety. (16 Marks)

OR

- 10 Explain the application of computer for machinery maintenance. (16 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.