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10MN831

Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019
Mine Transport System

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART – A

- 1 a. Write note on Mine Transport by Gravity. (10 Marks)
 b. Explain on an underground conveyor transport system. (10 Marks)
- 2 a. Write note on Belt conveyor system of Mine Transportation. (10 Marks)
 b. Write note on Scraper haulage system in Mine Transportation System. (10 Marks)
- 3 a. Write note on Construction of Rail tracks. (10 Marks)
 b. Motion of car under gravity – Explain in detail. (10 Marks)
- 4 a. Write the equipment of rope haulage transportation in mine. (10 Marks)
 b. Write note on Scope of application of a rope haulage. (10 Marks)

PART – B

- 5 a. Write note on Trackless mining concepts in modern mechanized mines. (10 Marks)
 b. Write note on Mine Trucks and their application. (10 Marks)
- 6 a. Write note on Hydraulic transportation by gravity and by pumps. (10 Marks)
 b. Write note on Stowing material transportation. (10 Marks)
- 7 a. Write note on Principle of ropeways and merit and demerit of ropeways in modern mine transportation. (10 Marks)
 b. Write note on aerial rope ways, its applicability and demerits. (10 Marks)
- 8 a. Write the management and safety of mining machinery. (10 Marks)
 b. Write note on Remote monitoring and control in Mines automation. (10 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.