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10MN831

**Eighth Semester B.E. Degree Examination, Aug./Sept.2020**  
**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. Explain the factors to be considered for techno economic indices of mine. (10 Marks)  
b. With neat sketch, explain the gravity transportation system. (10 Marks)
- 2 a. With neat sketch, explain the scraper chain conveyor. (10 Marks)  
b. With neat sketch, explain the vibrating conveyor. (10 Marks)
- 3 a. Explain in detail about the construction of Rail tracks. (10 Marks)  
b. With neat sketch, explain the man – riding car. (10 Marks)
- 4 a. What are the equipments required for rope haulage? Explain each briefly. (10 Marks)  
b. Write a detailed note on scope and application of rope haulage. (10 Marks)

**PART – B**

- 5 a. With a neat sketch, explain Load haul dumper. (10 Marks)  
b. With a neat sketch, explain shuttle car. (10 Marks)
- 6 a. With a sketch, explain the theories of hydraulic transportation. (10 Marks)  
b. With a neat sketch, explain the working principle of hydraulic feeder. (10 Marks)
- 7 a. With neat sketch, explain the Bicable Aerial ropeway. (10 Marks)  
b. Explain about the Plan and Profile of ropeway. (10 Marks)
- 8 a. Write a detailed note on Remote control system in mines. (10 Marks)  
b. Write a detailed note on CAD. (10 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.