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10MN55

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019
Underground Coal Mining

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 Grading and Analysis of coal. (10 Marks)
b. Explain the opening up of coal seams by Adits and vertical shafts, with a neat sketch. (10 Marks)
- 2 a. Explain the factors influencing choice of mining methods. (12 Marks)
b. Explain the Basic Mining Methods. (08 Marks)
- 3 a. Explain the Application, Limitation and Working principles of Bord and Pillar Mining. (12 Marks)
b. Explain the Diagonal Method of Interaction of coal. (08 Marks)
- 4 Explain the Application, Limitation and working principle of Room and Pillar mining. (20 Marks)

PART – B

- 5 Explain the Applications, Limitation and Working principles of longwall mining system. (20 Marks)
- 6 Explain the Application, Limitation and Working principles of coal plough for thin seam mining. (20 Marks)
- 7 a. Explain the problems of Mining Thick coal seam. (08 Marks)
b. Explain the Inclined slicing in Descending order with stowing, with a neat sketch. (12 Marks)
- 8 Explain the Application, Limitation, Working principle of Blasting Gallery Method, with a neat sketch, Advantages and Disadvantages. (20 Marks)
