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**Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019**  
**Mine Planning and Design**

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting at least TWO questions from each part.**

**PART – A**

- 1 a. Explain the Government role by influence in mining. (14 Marks)  
b. Mention the various mining laws in India. (06 Marks)
- 2 Write short notes on :  
a. Land Acquisition for mining. (07 Marks)  
b. Impoundments and Dams (07 Marks)  
c. Plant Silting and construction. (06 Marks)
- 3 Explain the principles of mine planning of various stages of planning new mines. (20 Marks)
- 4 With a neat sketch, explain pit top and pit bottom layouts. (20 Marks)

**PART – B**

- 5 Explain the Division of coalfield into mining Area. (20 Marks)
- 6 Explain different modes of Access to a coal mine. Explain How to locate the optimum position of vertical shaft? (20 Marks)
- 7 Write a report in Detail about mine closure, sealing by abandonment. (20 Marks)
- 8 a. Explain Hydraulic mining and underground coalgasification? (10 Marks)  
b. Write a note on any innovative mining method? (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.