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10MN64

Sixth Semester B.E. Degree Examination, Dec.2018/Jan.2019
Mine Environmental Engineering - II

Time: 3 hrs.

Max. Marks:100

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

PART - A

- 1 Explain the causes, prevention and control of underground fires. (20 Marks)
- 2 Explain the causes, stages, symptoms and prevention of spontaneous heating. (20 Marks)
- 3 a. Explain the causes and prevention of firedamp explosion. (10 Marks)
b. Explain the causes and prevention of coal dust explosion. (10 Marks)
- 4 a. Explain the causes, measures and prevention of Inundation. (12 Marks)
b. Explain the Safety Boring Apparatus. (08 Marks)

PART - B

- 5 a. Explain the problems and methods of illuminating underground mines. (12 Marks)
b. Write short notes on :
i) Illumination ii) Candle power iii) Luminous flux iv) Lux (08 Marks)
- 6 a. Explain the General lighting in mines. (10 Marks)
b. Explain the illumination survey. (10 Marks)
- 7 Write short notes on :
a. SCBA. (10 Marks)
b. Self Rescuer. (10 Marks)
- 8 Explain the procedure involved in recovery work in connection with explosion and inundation. (20 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.