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10MN81

Eighth Semester B.E. Degree Examination, Aug./Sept.2020
General Safety

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 safety conferences from 1st to 5th and their impact in mines. (10 Marks)
b. Explain the safety education and training in the mine. (10 Marks)
- 2 a. Draw the Internal Safety Organisation chart for large mining company and explain the function of such ISO. (15 Marks)
b. Write short note on : Safety Audit System. (05 Marks)
- 3 Explain General Miner's diseases and the
 - a. Causes of the diseases.
 - b. Preventive measures.
 - c. Effect on health. (20 Marks)
- 4 a. Explain as per VT Rules 166 :
 - i) The basic training of newly employed persons. (05 Marks)
 - ii) The refresher training. (05 Marks)
b. Explain as per Rescue Rule the :
 - i) Duties of superintendent of Rescue station. (05 Marks)
 - ii) Duties of Rescue Brigades in the rescue room. (05 Marks)

PART - B

- 5 a. Explain the standing order applicable in the event of outbreak of fire in an underground mine. (10 Marks)
b. Explain the standing order applicable in the event of stoppage of main mechanical ventilator in an underground mine. (10 Marks)
- 6 a. Explain the byelaws for use of ANFO explosives in mines. (10 Marks)
b. What are the safety precautions to be undertaken during bulk transportation of explosives? (10 Marks)
- 7 Write short notes on :
 - a. ZAP and MAP. (08 Marks)
 - b. Accident records and their importance. (06 Marks)
 - c. Inspection of working to improve the safety in mines. (06 Marks)
- 8 a. What are the major heads under which the mine accidents are classified? (06 Marks)
b. Write a model detailed accident report for an accident due to roof fall by assuming all the necessary data. (14 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.