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10MN81

Eighth Semester B.E. Degree Examination, June/July 2014

General Safety

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 1st to 4th safety conferences and their impact in the mines. (10 Marks)
- b. Explain the safety education depends upon several factors like physiological factors and psychological factors in the mines. (10 Marks)
- 2 a. Explain the internal safety organization in underground mine. (10 Marks)
- b. Explain the safety policy in underground mines. (10 Marks)
- 3 Explain occupational health survey notified:
 - i) Miners diseases
 - ii) Permissible standard of dust
 - iii) Preventive measures. (20 Marks)
- 4 a. Explain as per vocational training rules 1966 in the mines:
 - i) Newly employed
 - ii) Old employed (10 Marks)
- b. Explain as per Indian electrical Rule 1988:
 - i) Precaution of flexible cable
 - ii) Voltage limits (10 Marks)

PART – B

- 5 a. Explain the standing order in event fire as per MMR 1961. (10 Marks)
- b. Explain the precautionary measures in the event of inrush of water in the mines. (10 Marks)
- 6 a. Explain the Bye laws as per MMR 1961 the bulk transportation of Explosives in the mines. (10 Marks)
- b. Explain the Bye laws of ANFO explosives used in the mines. (10 Marks)
- 7 a. Explain the classification of accidents occur in both mines i.e, surface mine and underground mine. (10 Marks)
- b. As an enquiry officer, write a accident report due to fall of roof in the Haulage drive where two persons were killed. (10 Marks)
- 8 a. Explain the accidental records are maintained in underground mines. (10 Marks)
- b. Explain the zero accidental planning (ZAP) and minimum accidental planning (MAP) in the underground mine. (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.