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17MN742

Seventh Semester B.E. Degree Examination, Feb./Mar. 2022 Occupational Health and General Safety

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss the impact of Safety Conference on prevention of accidents. (10 Marks)
b. Explain the importance of Health and Safety program in mining. (10 Marks)

OR

- 2 a. Explain the recommendations made under the 11th Safety Conference. (15 Marks)
b. Discuss the composition of a Safety Committee. (05 Marks)

Module-2

- 3 a. Explain the duties and responsibilities of Rescue Superintendent. (10 Marks)
b. Briefly discuss the permissible standard of dustiness in mines. (10 Marks)

OR

- 4 a. List out the general miners diseases and explain pneumoconiosis in detail. (10 Marks)
b. Explain Ankylostomiasis and Nystagmus and its preventive measures. (10 Marks)

Module-3

- 5 a. Briefly explain the standing order in the event of fire. (10 Marks)
b. Explain the precautions to be taken against inundation. (10 Marks)

OR

- 6 a. Discuss the Bye – laws of Bulk transportation of explosives. (10 Marks)
b. Explain the Bye – laws related to ANFO explosives. (10 Marks)

Module-4

- 7 a. Discuss the main causes and preventive measures for various accidents in mines. (10 Marks)
b. Explain the various classifications of Accidents. (10 Marks)

OR

- 8 Write an accident enquiry report for a fatal accident caused due to mechanical failure of dumper during dumping operation. Assume your own conditions. (20 Marks)

Module-5

- 9 a. Explain the importance of Job Safety Analysis in prevention of accidents. (10 Marks)
b. Explain Zero Accidental Planning (ZAD) and Minimum Accidental Planning (MAP). (10 Marks)

OR

- 10 a. Explain the principal objective behind collection and presentation of Accidental records. (10 Marks)
b. Explain Accident Compensation and its implications. (10 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.