

GBCS SCHEME

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18MN742

Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 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 in detail safety conference and their impact on accident prevention in mines. (10 Marks)
b. Explain the impotence of safety education and training on mine workers. (10 Marks)

OR

- 2 a. Explain the role of DGMS in maintaining safety in mines. (10 Marks)
b. Explain the recommendations of 10th safety conference of mines. (10 Marks)

Module-2

- 3 a. Discuss on the types of lung diseases seen in miners. (10 Marks)
b. Explain safety and occupational health survey and its importance in mining industry. (10 Marks)

OR

- 4 a. Briefly discuss on the permissible standard of dustiness in mines. (10 Marks)
b. Explain the duties and responsibilities of rescue superintendent as per the mines rescue rule 1985. (10 Marks)

Module-3

- 5 a. Explain briefly the standing order in the event of failure of main mechanical ventilator. (10 Marks)
b. Explain the bye-laws related to the bulk transportation of explosives. (10 Marks)

OR

- 6 a. Explain the bye laws for the use of diesel locomotives. (10 Marks)
b. Explain the standing order in the event of fire. (10 Marks)

Module-4

- 7 a. Discuss the various classifications of mining accidents based on its causes. (10 Marks)
b. Explain the importance of analyzing the statistics of mine accidents. (10 Marks)

OR

- 8 Write an accident enquiry report for a fatal accident caused due to flyrock and lack of Blast area security resulting in death of a local villager. (20 Marks)

Module-5

- 9 a. Discuss the objective behind the collection and presentation of mine accidental records. (10 Marks)
b. Explain the importance of job safety analysis. (10 Marks)

OR

- 10 a. Discuss on zero accidental planning (ZAP) and how it can be implemented in mines. (10 Marks)
b. Discuss how inspection for safety can help in the prevention of mining accidents. (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.