

Code No: 138GD

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, September - 2020

HEALTH AND SAFETY IN MINES

(Computer Science and Engineering)

Time: 2 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) What is mining and what are the accidents occur in mines?
b) Write about any mining accident in India. [7+8]
- 2.a) What are the safety precautions has to be taken in mines?
b) Explain the safety measures taken in mining industries. [7+8]
- 3.a) What are the causes and preventive measures of drilling and blasting in underground mining.
b) What is accident analysis and how to write a report on accident? [8+7]
- 4.a) What are the engineering systems used to improve the safety?
b) What are the main steps taken in safety analysis? [8+7]
- 5.a) What is Minimum accidental plan and how much it is important in mining industries.
b) Write a technique used in safety analysis. [7+8]
- 6.a) Compare the risk analysis by using FTA and risk analysis using HAZOP.
b) What is health risk assessment in mining? [7+8]
- 7.a) What are the safety policies in organization?
b) How the safety policies help to the workers in organization? [7+8]
- 8.a) Explain about internal safety organization and its importance.
b) How do safeties drive campaigns and human behavioral approach in safety helps in organizations? [7+8]

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