

Code No: 157ER**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year I Semester Examinations, February/March-2022****HEALTH AND SAFETY IN MINES****(Common to EEE, CSE)****Time: 3 Hours****Max. Marks: 75****Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Briefly discuss about mining and what are the accidents occur in mines?
b) What are the safety precautions has to be taken in mines? [8+7]
2. Classify accidents as per Mining legislation/law? Explain. [15]
3. What are the causes of haulage and winding? How to prevent from it? Explain. [15]
- 4.a) What are the major steps taken in safety analysis?
b) What are the engineering systems used to improve the safety in mines? [8+7]
5. What are the techniques used in safety analysis? Explain [15]
6. Discuss about the generic approach to loss control within mining operations. [15]
- 7.a) Discuss about the Risk minimization techniques in mines.
b) Differentiate risk analysis by using FTA and risk analysis using HAZOP. [8+7]
8. Discuss about the following:
(a) Safety drives campaigns
(b) Internal safety organization
(c) Safety audit. [5+5+5]

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