



10MN81

**Eighth Semester B.E. Degree Examination, June/July 2019**  
**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 safety conference and the recommendation in the mining. (10 Marks)  
b. Explain the management safety audit system in the larger mine. (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 :  
a. Miners diseases (07 Marks)  
b. Permissible standard of dust (07 Marks)  
c. Preventive measures. (06 Marks)
- 4 a. Explain as per vocational training rules 1966 :  
i) Who are all to be trained?  
ii) The basic training  
iii) The refresher training. (10 Marks)  
b. Explain as per electricity rules :  
i) Cable  
ii) Flexible cable  
iii) Voltage limits at underground. (10 Marks)

**PART – B**

- 5 Explain the standing order in Event of :  
a. Fire (07 Marks)  
b. Inundation (07 Marks)  
c. The failure of main mechanical ventilator. (06 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. (08 Marks)  
b. As an enquiry officer, write a accident report due to fall of roof in the Haulage drive where two persons were killed. (04 Marks)
- 8 a. Explain the accidental records to be 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.