

**Programme: B. Tech (MiE)**
**Course: Mine Legislation & Safety II**
**Course Code:8PCCMiE406**
**Enrolment no. \_\_\_\_\_**
**Full Marks: 70**
**Time: 3 Hrs.**

Q. No.	Questions	CO	Bloom Taxonomy Category	Marks
<b>Section I</b>				
1	<b>Short Answer type questions.</b>			
a	Describe the silent provisions of mineral conservation rules 2017 regarding mine closure plan including its modification.	CO1	Understand	<b>4 x 5 = 20</b>
	or			
b	Describe the provisions mentioned in chapter V of Mine conservation and Development Rule 2017 regarding precaution against ground vibration & precaution against air pollution.	CO1	Understand	
	or			
c	Mention the provisions regarding illegal strike and lockouts as well as prohibitions of first aid as per act 24 & 25 of Industrial Dispute Act 1947.	CO2	Understand	
	or			
d	Describe the provisions regarding the fresh air base as per rule 27 of Mine Rescue Rule 1985.	CO2	Understand	
	or			
	State briefly the causes of accidents due to the fall of the roof and sides.	CO3	Understand	
	or			
	What precautionary measures should be taken to prevent from accident due to the fall of the roof?	CO3	Understand	
	or			
	Describe in brief the pit safety committee.	CO4	Understand	
	or			
	Describe corporate safety policy.	CO4	Understand	
<b>Section II</b>				
	<b>Long Answer type questions.</b>			
2	Summarize the qualification and experience requirements for rescue station superintendents, instructors, and rescue room in-charges as outlined in Rules 7, 8, and 10 of the Mine Rescue Rules, 1985.	CO2	Apply	<b>3 x 10 = 30</b>
	or			
3	Mention the provision of Act 5 (Board of conciliation), Act 6 (Court of enquiry) , Act 7 (Labour Courts) , Act 7A (Tribunals) and 7 B(National Tribunals) as per the Industrial Dispute Act 1947.	CO2	Apply	
	or			
4	Summarize the primary causes of winding-related accidents and propose effective measures to mitigate associated risks.	CO3	Understand	
	or			
5	What is the purpose of making enquiries into accidents? What are the statutory provisions for such an inquiry?	CO3	Understand	
	or			
6	Can you suggest the steps to be taken to increase safety consciousness?	CO4	Apply	
	or			
7	Explain the structure and key functions of the internal safety organization at the mine/colliery level, including its hierarchical framework.	CO4	Understand	
	or			
<b>Section III</b>				
	<b>Application based questions</b>			
8	Summarize the key provisions of Rules 12 to 15 of the Mineral Conservation and Development Rules, 2017, focusing on prospecting and mining operations, separate stacking of non-salable minerals, machinery and plant regulations, and mine abandonment, including its modification.	CO1	Create	<b>1 x 20 = 20</b>
	or			
9	Summarize the regulations outlined in Chapter V of the Mineral Conservation and Development Rules, 2017, focusing on sustainable mining practices, topsoil management, overburden and waste rock storage, noise control measures, and flora restoration efforts. You can find more details in the official	CO1	Apply	
	or			

**COURSE OUTCOME**

CO1 Apply knowledge of legislation in mines for the implementation of rules and regulations during their job.

CO2 Define work effectively with other engineering and science teams for suggesting any measures against any mine accidents.

CO3 State application of various acts, rules and regulation

CO4 Interpret the cause and remedies of various accident disease and mine safety.