

PRACTICE SET

End Semester Examination, Spring- 2026

Program: B. TECH

Semester: VIII

Subject: MINE LEGISLATION & SAFETY II

Subject Code: 8PCCMiE406

Course Outcomes	Description
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.

UNIT I

Section A (10 Marks)

1. Describe in brief the salient provision of mineral concession Rule 1960 in chapter IV regarding grant of mining lease in respect of land in which mineral vests in government. CO 1 (Understand)
2. Describe the silent provisions of mineral conservation rules 2017 regarding mine closure plan including its modification. **CO 1 (Understand)**
3. Describe the silent provisions of rule 12 to 15 of mineral conservation rules 2017 regarding opencast working & underground mining operations. CO 1 (Understand)
4. Describe the provisions mentioned in chapter V of Mine conservation and Development Rule 2017 regarding precaution against ground vibration & precaution against air pollution. **CO 1 (Understand)**
5. Define the following as per Mineral Conservation & Development Rule 2017: CO1 (Remember)
 - a. Abandonment of Mines

- b. Authorized Officer
- c. Beneficiation
- d. Final Mine Closure Plan
- e. Progressive Mine closure Plan
- f. Mineral Reject

Section B (20 Marks)

6. Describe the silent provisions of rule 12 to 15 of mineral conservation rules 2017 regarding prospecting and mining operation, separate stacking of non-salable minerals, machinery and plant, abundant of mine including its modification. CO 1 (Apply)
7. Describe the provisions mentioned in chapter V of Mine conservation and Development Rule 2017 regarding sustainable mining, removal and utilization of topsoil, storage of overburden/ waste rock & precaution against noise and Restoration of flora. CO 1 (Apply)

UNIT II

Section A (10 Marks)

8. Describe the provisions regarding establishment and location of mine rescue station and mine rescue room as mentioned in Chapter 2 of Mines Rescue rule 1985. CO 2 (Understand)
9. Mention the provision regarding function of mines rescue station and mines rescue room as mentioned in Chapter 2 of Mines Rescue rule 1985. CO 2 (Understand)
10. Describe the provisions regarding the fresh air base as per rule 27 of Mine Rescue Rule 1985. CO 2 (Understand)
11. Mention the provision regarding rescue team members and their duties of Rule 32 of Mine Rescue Rule 1985. CO 2 (Understand)
12. Mention the provision regarding qualification and experience of rescue station superintendent Instructors and rescue room in charge as per rule 7, 8 & 10 of Mine Rescue Rule 1985. CO 2 (Apply)
13. Define the following as per the provisions of Indian Electricity rules: CO 2 (Remember)
 - a. Portable Apparatus
 - b. Handheld apparatus
 - c. Transportable apparatus
 - d. Flameproof enclosure
 - e. Intrinsically safe apparatus

Section B (20 Marks)

14. Mention the provision regarding prohibition of strike and Lockout as per Act 22 and 23 of Industrial Dispute act 1947. CO 2 (Apply)

UNIT III

Section A (10 Marks)

15. Define the term accident. Classify the causes of accident in mines. CO3 (Understand)

16. What is the difference between fatal and serious accident? What are the evils of accident?
CO3 (Understand)
17. State briefly the causes of accidents due to the fall of the roof and sides. CO3
(Understand)
18. What precautionary measures should be taken to prevent from accident due to the fall of
the roof? CO3 (Understand)
19. State briefly the accident due to explosives. CO3 (Understand)
20. What is the purpose of making enquiries into accidents? What are the statutory provisions
for such an inquiry? CO3 (Understand)

Section B (20 Marks)

21. State briefly the causes of accidents due to solid blasting. Suggest remedial measures to
prevent such accident. CO3 (Apply)
22. Accident is very common in opencast mine. Can you highlight the main causes of
accident in opencast mines? And what measures would you take to prevent them. CO3
(Analyze)

UNIT IV

Section A (10 Marks)

23. Describe the internal Safety Organization at the mine/colliery level along with its
functions. Give an organizational structure of the mine colliery level. CO4 (Understand)
24. What is safety committee? What should be its composition? State the function of the
safety committee? CO4 (Understand)
25. Can you suggest the steps to be taken to increase safety consciousness? CO4 (Apply)
26. Describe safety audit as well as the aim of safety audit in mine. CO4 (Understand)
27. Describe the safe and unsafe conditions in coal mining. CO4 (Understand)

Section B (20 Marks)

28. Suggest ways and means to make safety committee an effective and potent tool in
promoting safety in mining operations. CO4 (Apply)

Summary Sheet:**CO Wise**

CO	Q. No	Marks
CO1	1,2,3,4,5,6,7	90
CO2	8,9,10,11,12,13,14	80
CO3	15,16,17,18,19,20,21,22	100
CO4	23,24,25,26,27,28	70
Total		340

Unit Wise

Unit	Q. No	Marks
Unit 1	1,2,3,4,5,6,7	95
Unit 2	8,9,10,11,12,13,14	80
Unit 3	15,16,17,18,19,20,21,22	100
Unit 4	23,24,25,26,27,28	70
Total		340

Blooms Taxonomy Level (BTL) Wise

BTL	Q. No	Marks
LOT	1,2,3,4,5,8,9,10,11,13,15,16,17,18,19,20,23,24,26,27	200
HOT	6,7,12,14,21,22,25,28	140
Total		340

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Disclaimer: - This is a Practice set. The Question in End term examination will differ from the Practice set. This Practice set is meant for practice only.