

PRACTICE SET

End Semester Examination, Spring- 2026

Program: B.TECH

Semester: VIII

Subject: MINE MANAGEMENT

Subject Code: 8PCCMiE407

Course Outcomes	Description
CO1	Summarize the evolution theory of management and sketch the structure & design of organization.
CO2	Acquire knowledge and hands-on competence in applying the concepts of management in the development of mine economics.
CO3	Analyze and solve financial management problems.
CO4	Illustrate leadership skills and be able to be knowledgeable in behavioral science.

Unit I
(10 marks)

1. Define Management state the actors of Management. CO 1 (Remember)
2. Define management and list the five key elements proposed by Frederick Winslow Taylor CO 1(Remember)
3. Explain the threefold concept of management in relation to employees and demonstrate its practical application in organizations. CO 1 (Apply)
4. Critically assess the concept of leadership in mine management, and examine various leadership styles along with their advantages and disadvantages. Evaluate CO1
5. Explain the development of management theories and summarize the essential elements of scientific management. CO 1 (Understand)
6. Define Management by Objectives (MBO) and analyze its limitations in organizational practice. CO 1 (Analyze)

Section C (20 marks)

7. Explain the concept of Management by Objectives (MBO) and evaluate its key advantages and limitations. CO 1 (Analyze)
8. Explain the threefold concept of management in relation to employees and demonstrate its practical application in organizations. CO 1 (Apply)

**Unit II
(10 marks)**

9. State the meaning of industrial relations in the context of India's any three mining sector. CO 2 (Remember)
10. Define personnel management. State the factors comprising personnel management. CO 2 (Understand)
11. Can you detail about capital budgeting? Describe in details the capital budgeting process. CO 2 (Apply)
12. Discuss the key factors necessary for promoting healthy industrial relations in an organization. CO2 (Analyze)
13. Discuss the elements and role of personnel manager? Explain in brief about Human resource management CO2 (Analyze)
14. Discuss the internal and external sources of recruitment and the challenges organizations face during the recruitment process.CO 2(Apply)
15. Examine the following core HRM functions in brief: (CO 2 – Analyze)
 - (a) How employees are sourced
 - (b) The procedure for selecting candidates
 - (c) Approaches to strengthen workplace

Section C (20 marks)

16. Explain the concepts of training and development, and analyze the methods used to assess employee training needs CO2 (Analyze)

**Unit III
(10 marks)**

17. State the scope & importance of financial management. CO 3 (Understand)
18. Discuss the concept of break-even analysis and examine its uses and limitations in managerial decision-making CO3 (Understand)
19. What will be the profitability index with discount rate 12% for the cash flow given below CO 3 (Understand)

Year	0	1	2	3	4	5
Net cash flow in Rs.	-40000	15000	14000	13000	12000	11000

20. What do you understand by Function of financial management & write its importance? CO 3 (Understand)
21. Explain the ABC analyze & VED write its advantages and disadvantages CO 3 (analyze)

Section C (20 marks)

22. Four alternative investment opportunities are available in a mining project each offering different revenues for the next two years as shows in the table. If the interest rate is 10% annually. Which alternative provides the best investment opportunity based on the net present value

	Case I	Case II	Case III	Case IV
Initial investment Rs.	40000	100000	80000	120000
Return in year 2	30000	75000	650000	80000
Return in year 3	30000	75000	650000	80000

23. Illustrate the followings & Evaluate the all salient formulas which are used to formulate the mine minerals CO 3 (Evaluate)
- Internal Rate of Return (IRR)
 - Annual Rate of Return (ARR)
 - Pay-back period (PBP)
 - Profitability Index (PI)
 - Net Present Value (NPV)

**Unit IV
(10 marks)**

24. Analyze the behavioral theory of management, explaining its key concepts and evaluating its significance in improving organizational effectiveness and employee performance. CO4.(Analyze)
25. Illustrate Douglas McGregor's Theory X, Theory Y, and Theory Z, and apply these theories to managerial practices in mining organizations. CO 4 (Apply)
26. Discuss the key factors required for effective and meaningful communication, explaining how these elements contribute to clarity, accuracy, and mutual understanding in organizational settings. CO 4 (Understand)
27. Explain the essential characteristics of an industrial relations system, focusing on its structure, participants, and the role it plays in maintaining workplace harmony and productivity. CO 4 (Understand)
28. Describe the fundamental approaches to industrial relations, explaining their significance and how they influence interactions between management, employees, and trade unions in organizations. CO 4 (Understand)

Section C (20 marks)

29. Identify major causes of organizational conflict and apply appropriate methods to explain the systematic process involved in resolving industrial disputes effectively within workplace environments. CO 4 (Apply)
30. Critically explain Abraham Maslow's hierarchy of needs theory, and analyze its relevance in understanding employee motivation and behavior in organizations. CO4.(Analyze)

**Summary Sheet:
CO Wise**

CO	Q. No	Marks
CO1	1,2,3,4,5,6,7,8,	100
CO2	9,10,11,12,13,14,15,16,	90
CO3	17,18,19,20,21,22,23,	90
CO4	24,25,26,27,28,29,30,	90
Total		370

Unit Wise

Unit	Q. No	Marks
Unit 1	1,2,3,4,5,6,7,8,	100
Unit 2	9,10,11,12,13,14,15,16,	90
Unit 3	17,18,19,20,21,22,23,	90
Unit 4	24,25,26,27,28,29,30,	90
Total		370

Blooms Taxonomy Level (BTL) Wise

BTL	Q. No	Marks
LOT	1,2,3,4,5,7,11,12,13,14,17,18,21,22,23,24,25,28,31,32,33,34,36,38	165
HOT	6,8,9,10,15,16,19,20,26,27,29,30,35,37,39,40	210
Total		375

Prepared By: Mr. Sudhakar Kumar Ravi

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.