PVP 23

Code: 23HS1402

II B.Tech - II Semester – Regular Examinations - MAY 2025

INDUSTRIAL MANAGEMENT
(MECHANICAL ENGINEERING)

Duration: 3 hours Max. Marks: 70

Note: This question paper contains two Parts A and B.
2. Part-A contains 10 short answer questions. Each Question carries 2 Marks.
3. Part-B contains 5 essay questions with an internal choice from each unit. Each Question carries 10 marks.
4. All parts of Question paper must be answered in one place.

BL – Blooms Level CO – Course Outcome

PART – A

		BL	CO
1.a)	Define Industrial Management.	CO1	L1
b)	What is Production Management?	CO1	L2
c)	Explain objectives of time study.	CO2	L2
d)	Explain the concept of work study.	CO2	L2
e)	What is sampling inspection?	CO2	L2
f)	Define quality circle.	CO2	L2
g)	What is capital budget?	CO3	L2
h)	Define Ratio analysis.	CO3	L2
i)	What is Value analysis?	CO3	L2
j)	Explain the functions of Personnel management.	CO3	L2

PART – B

			BL	CO	Max. Marks
UNIT-I					
2	a)	Explain the importance of management in an organization and outline its primary functions.	L2	CO1	5 M
	b)	List and explain Fayol's principles of management, providing examples of their application.	L2	CO1	5 M
OR					
3	a)	Explain Taylor's principles of management and provide an example of how they are used in modern workplaces.	L2	CO1	5 M
	b)	Identify and explain three critical factors that influence the selection of a plant location.	L2	CO1	5 M
UNIT-II					
4	a)	Describe the steps involved in conducting a method study and explain its role in manufacturing process with an example.	L2	CO2	5 M
	b)	Define time study and explain its significance in industrial engineering.	L2	CO2	5 M
OR					
5	a)	Explain the importance of production in the context of industrial operations and economic growth.	L2	CO2	5 M
	b)	Explain the advantages of using flow process charts in analyzing and improving work processes.	L2	CO2	5 M

UNIT-III					
6	a)	What is statistical quality control (SQC) and how does it differ from traditional quality control methods?	L2	CO2	5 M
	b)	Explain the implementation process of quality circles and how they contribute to continuous improvement in an organization.	L2	CO2	5 M
OR					
7	a)	Explain with an example of how control charts can be used to detect variations in a manufacturing process and suggest corrective actions.	L2	CO2	5 M
	b)	Define the zero defect concept in TQM and explain its significance in achieving quality improvement.	L2	CO2	5 M
UNIT-IV					
8	a)	Define financial management and explain its scope and nature in the context of a business organization.	L2	CO3	5 M
	b)	Define Net Present Value (NPV) and discuss its advantages and limitations as an investment evaluation criterion.	L3	CO3	5 M
OR					
9	a)	Describe the steps involved in estimating the working capital requirements of a business and provide an example calculation.	L3	CO3	5 M

	b)	Explain the nature of investment decisions in capital budgeting and their significance for long-term financial planning.	L2	CO3	5 M
		UNIT-V			
10		Explain the concept of personnel management and its role in employee development.	L2	CO3	10 M
		OR			
11		Define value engineering and explain its significance in improving product value while reducing costs.	L2	CO3	10 M