Reg. No.															

Question Paper Code	13633

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2025

Sixth Semester

Computer Science and Engineering

(Common to Electronics and Instrumentation Engineering, Information Technology, Computer Science and Engineering (IoT) & Mechanical and Automation Engineering)

20HSMG601 - PRINCIPLES OF ENGINEERING MANAGEMENT

Regulations - 2020

Duration: 3 Hours | Max. Marks: 100

PART - A (MCQ) (10 × 1 = 10 Marks)

Answer ALL Questions

		Marks	K – Level	CO
1.	Who introduced the 14 Principles of Management? (a) Henry Fayol (b) Frederick Taylor (c) Max Weber (d) Abraham Maslow	1	K1	CO1
2.	What is the primary objective of a private sector business? (a) Public welfare (b) Profit maximization (c) Government control (d) Free services to the public	1	K1	CO1
3.	What is the planning horizon? (a) The time ahead for which there is no information (b) The time between making a plan and putting it into effect (c) The maximum time for which managers can make plans (d) The time period within which uncertainty is very low	1	K1	CO2
4.	_____is described as interpretative planning (a) Procedure (b) Strategy (c) Policies (d) None of the above	1	K1	CO2
5.	Which type of organization allows employees to report to multiple managers? (a) Functional (b) Line (c) Matrix (d) Simple	1	K1	CO3
6.	The main purpose of employee development is to: (a) Prepare employees for future roles and responsibilities (b) Increase organizational conflicts (c) Reduce employee motivation (d) Limit career growth opportunities	1	K1	CO3
7.	Exchange of Communication through spoken words (a) Oral Communication (b) Non-Verbal Communication (c) Written Communication (d) Gestural Communication	1	K1	CO4
8.	Managerial Grid model of leadership has concern for (a) Project and Process (b) Process and Planning (c) People and Product (d) Pre-requisites and Plans	1	K1	CO4
9.	Which of the following is not a primary function of R&D? (a) Developing new products (b) Enhancing existing technologies (c) Eliminating innovation (d) Protecting intellectual property	1	K1	CO5
10.	Copyrights protect: (a) Industrial designs (b) Inventions and patents (c) Literary, artistic, and musical works (d) Manufacturing processes	1	K1	CO5

PART - B (12 × 2 = 24 Marks)

Answer ALL Questions

		Marks	K – Level	CO
11.	What is Scientific Management?	2	K1	CO1
12.	List the skills required by managers in an organization.	2	K1	CO1
13.	Define ‘sole proprietorship’.	2	K1	CO1

14.	Define Span of Control.	2	K1	CO2
15.	Compare strategic and tactical planning.	2	K2	CO2
16.	Describe Delphi technique.	2	K2	CO2
17.	Distinguish between Formal and Informal organization.	2	K2	CO3
18.	List down the sources of recruitment.	2	K1	CO3
19.	List the elements of directing.	2	K1	CO4
20.	Define Job Satisfaction.	2	K1	CO4
21.	Define green management.	2	K1	CO5
22.	List the roles of R & D in business development.	2	K1	CO5

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

23.	a)	Explain organization and different types of business organizations.	11	K2	CO1
		OR			
	b)	Explain in detail about Industry 4.0. Also state how it helps to manage Business under different domains.	11	K2	CO1
24.	a)	Explain the nature and steps involved in the Planning process.	11	K2	CO2
		OR			
	b)	Show and Explain the steps involved in a managerial decision making process.	11	K2	CO2
25.	a)	Demonstrate the various types of selection process towards recruitment.	11	K2	CO3
		OR			
	b)	Explain about the various types of departmentation with examples.	11	K2	CO3
26.	a)	Identify the importance of Non-Budgetary techniques in detail.	11	K3	CO4
		OR			
	b)	Experiment with how the Communication through electronic media is helpful for effective business.	11	K3	CO4
27.	a)	Examine the process of lean manufacturing with respect to controlling mechanisms towards standardization.	11	K3	CO5
		OR			
	b)	Apply the concept of Intellectual Property Rights (IPR) to protect an innovative manufacturing design or process.	11	K3	CO5
28.	a) (i)	Explain any two motivation theories in detail.	6	K2	CO4
	(ii)	Explain Innovation management.	5	K2	CO5
		OR			
	b) (i)	Describe the barriers of communication.	6	K2	CO4
	(ii)	Explain Zero based Budgeting.	5	K2	CO5