Reg. No.

Question Paper Code

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2024

13262

Seventh Semester

Electronics and Communication Engineering

(Common to Electrical and Electronics Engineering, Mechanical Engineering, Artificial Intelligence and Data Science, Computer and Communication Engineering, Electronics and Instrumentation, Instrumentation and Control Engineering, Mechanical and Automation Engineering & Sixth semester Information Technology)

20HSMG601 – PRINCIPLES OF ENGINEERING MANAGEMENT

Regulations - 2020

	Duration: 3 Hours	Max. M	arks:	100	
PART - A (MCQ) (20 × 1 = 20 Marks)			Mark	<i>K</i> –	60
		swer ALL Questions	\$	Level	СО
1.	Which of the following is a key fact	or in organizational culture?	1	K1	COI
	(a) Employee turnover	(b) Leadership style			
	(c) Industry type	(d) Profit margins			
2.	Who is known as the "Father of Scie	entific Management"?	1	<i>K1</i>	COI
	(a) Max Weber (b) Elton Mayo	(c) Frederick Taylor (d) Henry Fayol			
3.	What approach to management emp problems?	hasizes the use of scientific methods to solve	1	K1	<i>CO1</i>
	(a) Contingency approach	(b) Human relations approach			
	(c) Scientific approach	(d) System approach			
4.	Which form of business organization	n is owned by a single individual?	1	<i>K1</i>	COI
	(a) Sole proprietorship (b) Partner	ship (c) Corporation (d) Cooperative			
5.	A well-formulated objective should	be:	1	K2	<i>CO2</i>
	(a) General and vague	(b) Specific and measurable			
	(c) Open to interpretation	(d) Easy to achieve			
6.	Which step in the planning process	s involves assessing future conditions that could	1	K2	<i>CO2</i>
	affect the plan?				
	(a) Setting objectives	(b) Developing premises			
	(c) Decision-making	(d) Controlling			
7.	Which planning process focuses on setting long-term goals and determining how to 1 K1				CO2
	achieve them?				
	(a) Tactical planning	(b) Strategic planning			
	(c) Operational planning	(d) Project planning			
8.	. Which is a short term plan typicarly fashing a year of less.				CO2
	(a) Strategic plan	(b) Tactical plan			
	(c) Operational plan	(d) Long-range plan			
9.	What is the primary purpose of an o	-	1	K2	CO3
	(a) To increase employee motivation				
	(b)To define roles, responsibilities, and hierarchy				
	(c) To improve customer satisfaction				
	(d) To control company finances				
10.	Line authority refers to the power to	:	1	K2	CO3
	(a) Provide advice				
	(b) Directly oversee subordinates and make decisions				
	(c) Monitor compliance				
	(1) C_{1} = 1 = 4 = -4 = -4 = -4 = -4 = -4 = -4 =				

(d) Coordinate activities across departments

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11. Which method is commonly used to appraise employee performance?(a) SWOT analysis(b) 360-degree feedback	1	K1	СО3				
(c) Financial audit (d) Market analysis							
12. Delegation of authority helps to:	1	K2	CO3				
(a) Strengthen central control							
(b) Empower subordinates and improve decision-making efficiency							
(c) Reduce employee responsibilities							
(d) Decrease work delegation	1	V 1	<i>co</i> 4				
13. Which theory focuses on the hierarchy of human needs?	1	ΚI	<i>CO</i> 4				
 (a) Herzberg's Two-Factor Theory (b) Maslow's Hierarchy of Needs (c) Vroom's Expectancy Theory (d) McGregor's Theory X and Y 							
14. In leadership, which style is often associated with quick decision-making and clear	1	K1	CO4				
direction?							
(a) Democratic (b) Autocratic (c) Laissez-faire (d) Transformational							
15. The final step in the communication process is:	1	K1	<i>CO</i> 4				
(a) Encoding (b) Decoding (c) Feedback (d) Noise							
16. In the context of IT, communication primarily aims to:	1	K1	CO4				
(a) Simplify decision-making (b) Automate complex processes							
(c) Enable quick information sharing (d) Monitor employee performance	1	K2	CO5				
17. Disruptive innovation typically targets which market segment?	1	Λ2	COJ				
 (a) High-end customers (b) Established markets (c) Underserved or niche markets (d) Luxury goods market 							
18. Which of the following is a modern approach in engineering management?	1	K1	CO5				
(a) Traditional management (b) Agile management							
(c) Bureaucratic management (d) Autocratic management							
19. One primary challenge of implementing green management is	1	K2	<i>CO5</i>				
(a) High employee engagement (b) Initial costs of sustainable technologies							
(c) Increased production (d) Simplified processes			<i></i>				
20. Managing diversity in an organization primarily enhances:			CO5				
(a) Employee salaries (b) Creativity and innovation							
(c) Company profits (d) Office decor							
PART - B ($10 \times 2 = 20$ Marks)							
Answer ALL Questions	2	V1	COL				
21. What is the significance of Industry 4.0 in modern business?	2	K1	CO1				
22. List out four differences between a manager and an entrepreneur.	2	Kl	<i>CO1</i>				
23. What is a Gantt chart, and how is it used in planning?	2	K1	CO2				
24. What are planning premises?	2	K1	<i>CO2</i>				
25. Differentiate between centralization and decentralization.	2	K2	CO3				
What is departmentalization?			CO3				
. State Vroom's expectancy theory.			<i>CO</i> 4				
. Define transformational leadership.			<i>CO</i> 4				
29. What is incremental innovation?	2	<i>K1</i>	CO5				
30. Define the term "sustainability" in the context of green management.	2	K1	CO5				
so. Define the term sustainability in the context of green management.							

PART - C ($6 \times 10 = 60$ Marks)

Answer ALL Questions

31. a) Explain the types of business organizations with their advantages and ¹⁰ K2 CO1 disadvantages.

OR

- b) Discuss the current issues and future trends in management, focusing on the ¹⁰ K2 CO1 digital transformation of businesses and sustainability.
- K1 Remember; K2 Understand; K3 Apply; K4 Analyze; K5 Evaluate; K6 Create 13262

32. a) Explain the concept of Management by Objectives (MBO) with its benefits and ¹⁰ K1 CO2 challenges.

OR

- b) Discuss the decision-making process in detail. How can managers make ¹⁰ K² CO² effective decisions to improve organizational outcomes?
- 33. a) Explain the different types of organizational structures and their impact on ¹⁰ K1 CO3 organizational efficiency.

OR

- b) Describe the concept of job design and its impact on employee motivation and ¹⁰ K2 CO3 productivity.
- 34. a) Explain the key principles of Maslow's Hierarchy of Needs. 10 K1 CO4

OR

- b) Explain the barriers to effective communication in organizations. How can *10 K2 CO4* managers overcome these barriers to improve workplace communication?
- 35. a) Discuss the importance of sustainable practices in modern engineering ¹⁰ K2 CO5 management.

OR

- b) Describe the principles of lean management with suitable examples. 10 K2 CO5
- 36. a) i) Explain the concept of non-verbal communication and its importance in ⁵ K3 CO4 effective leadership.
 - ii) What is Intellectual Property Rights (IPR), and why is it important for 5 K3 CO5 innovation management?

OR

- b) i) What is Herzberg's Two-Factor Theory of motivation, and how can it be ⁵ K3 CO4 applied in the workplace?
 - ii) Explain the role of Research and Development (R&D) in entrepreneurship. 5 K3 CO5