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Question Paper Code	12837
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**B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024**

Sixth Semester

**Computer Science and Engineering**

(Common to Information Technology)

**20HSMG601 - PRINCIPLES OF ENGINEERING MANAGEMENT**

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

**PART - A (10 × 2 = 20 Marks)**

Answer ALL Questions

	<i>Marks</i>	<i>K- Level</i>	<i>CO</i>
1. Differentiate between Management and Administration.	2	K2	CO1
2. Define organization culture.	2	K1	CO1
3. List the planning tools available in business management.	2	K1	CO2
4. Define Span of Control.	2	K1	CO2
5. What is centralization?	2	K2	CO3
6. List out the types of organization structure.	2	K1	CO3
7. Summarize the concept of Laissez faire.	2	K2	CO4
8. State the various elements in the process of communication.	2	K1	CO4
9. List the modern approaches in engineering management.	2	K1	CO6
10. State the consequences on enforcing ethics in engineering management.	2	K1	CO6

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

11. a) Interpret the relevance of external environmental factors that affects global business.	13	K2	CO1
<b>OR</b>			
b) Explain in detail about Industry 4.0. Also state how it helps to manage Business under different domains.	13	K2	CO1
12. a) Explain the nature and steps involved in the Planning process.	13	K2	CO2
<b>OR</b>			
b) Interpret the steps involved in a managerial decision making process.	13	K2	CO2
13. a) Explain the following elements of organizing namely work specialization, departmentalization, and span of control, formalization, centralization and decentralization.	13	K2	CO3

**OR**

- b) i) Summarize the concept of Decentralization. 6 K2 CO3  
ii) Explain the importance of performance appraisal. 7 K2 CO3

14. a) Explain the various formal and Informal organization communications. 13 K2 CO4

**OR**

- b) Explain about the different modes of communication along with their merits and demerits. Also highlight role of IT in today's communication. 13 K2 CO4

15. a) Illustrate the scope of green manufacturing management with suitable example. 13 K2 CO6

**OR**

- b) Apply the suitable framework for lean manufacturing techniques. 13 K3 CO6

**PART - C (1 × 15 = 15 Marks)**

16. a) Illustrate the process of controlling with a flow diagram. 15 K3 CO5

**OR**

- b) Identify the types and benefits of budgetary and Non-budgetary control techniques. 15 K3 CO5