

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth Semester B.Tech Degree Regular and Supplementary Examination June 2023 (2019 Scheme)

Course Code: HUT310**Course Name: MANAGEMENT FOR ENGINEERS**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer all questions, each carries 3 marks.*

Marks

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| 1 | What are the characteristics of Management | (3) |
| 2 | Explain Contingency Approach in Management | (3) |
| 3 | Differentiate between Manager and Leader | (3) |
| 4 | What are the different types of plans? | (3) |
| 5 | Define Productivity. What are the objectives of Productivity measurements? | (3) |
| 6 | What are the factors affecting Decision Making? | (3) |
| 7 | Differentiate between critical and non-critical activity | (3) |
| 8 | List the steps involved in PERT method. | (3) |
| 9 | Write a short note on Corporate Social Responsibility. | (3) |
| 10 | Distinguish between Marketing and Sales. | (3) |

PART B*Answer one question from each module, each carries 14 marks.***Module I**

- 11 Explain in detail about 14 Principles of Henry Fayol's Administrative Management (14)

OR

- 12 a) Explain the 3 types of Managerial Roles (7)
b) Discuss about the skills required for Managers. (7)

Module II

- 13 a) Explain about the Dimensions of Leadership (8)
b) Draw and explain about Managerial Grid. (6)

OR

- 14 a) Explain the steps involved in the process of organizing (8)
b) Draw and explain Matrix Organisation (6)

Module III

- 15 a) Explain various factors that affect Productivity. (8)
- b) A health club has two employees who work on lead generation. Each employee works 40 hours a week, and is paid \$20 an hour. Each employee identifies an average of 400 possible leads a week from a list of 8,000 names. Approximately 10 percent of the leads become members and pay a one-time fee of \$100. Material costs are \$130 per week, and overhead costs are \$1,000 per week. Calculate the multifactor productivity for this operation in fees generated per dollar of input (6)

OR

- 16 a) Distinguish between decision making under certainty, risk and uncertainty. (9)
- b) Explain the importance of decision making in Management. (5)

Module IV

- 17 a) Draw a network diagram for the following project given below. Find the critical path and calculate the project duration & float of the network. (8)

Activity	Duration(Days)
0-1	2
1-2	8
1-3	10
2-4	6
3-4	3
2-5	3
3-6	7
5-7	2
6-7	8
4-7	5

- b) Compare CPM and PERT method of Evaluation. (6)

OR

- 18 a) Consider the data of a project as shown in table. If the indirect cost per week is Rs.200, Find the optimal crashed project completion time. (8)

Activity	Normal Time(Week)	Normal Cost(Rs.)	Crash Time(Week)	Crash Cost(Rs.)
1-2	7	700	4	850
1-3	5	500	3	700
1-4	8	600	5	1200
2-5	9	800	7	1250
3-5	5	700	3	1000
3-6	6	1100	5	1300
4-6	7	1200	5	1450
5-7	2	400	1	500
6-7	3	500	2	850

- b) Explain the following terms (6)
- (i) Crash Cost (ii) Crash time (iii) Project Crashing

Module V

- 19 a) What are the objectives of Operation Management? (4)
- b) Explain the scope of Operation Management (10)

OR

- 20 a) Explain different types of Entrepreneur. (7)
- b) What are the characteristics of a successful Entrepreneur (7)
