



Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degree S6 (R,S) (FT/WP) Examinations April 2026 (2019 Scheme)

Course Code: HUT310
Course Name: MANAGEMENT FOR ENGINEERS
(Use of statistical table is permitted)

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

Marks

- | | | |
|----|--|-----|
| 1 | Discuss the nature and scope of management. | (3) |
| 2 | Is management a science or an art? Substantiate your response. | (3) |
| 3 | Write a short note on strategic planning. | (3) |
| 4 | How does a leader differ from a manager? | (3) |
| 5 | What is meant by decision making? | (3) |
| 6 | Distinguish between production and productivity. | (3) |
| 7 | What is PERT? | (3) |
| 8 | Define an activity and event in a project | (3) |
| 9 | What is a patent? | (3) |
| 10 | What are the objectives of financial management? | (3) |

PART B

Answer one question from each module, each carries 14 marks.

Module I

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|----|--|-----|
| 11 | a) Give a brief account of the significance of the systems approach to the study of management. Discuss the advantages and limitations of system approach. | (7) |
| | b) Enumerate the various roles performed by managers as a part of their profession. | (7) |

OR

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|----|---|-----|
| 12 | a) What are the functions of manager in your opinion? Explain | (8) |
| | b) Explain the various levels of management. | (6) |

Module II

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| 13 | a) Explain the process of controlling function with the aid of a sketch. | (6) |
| | b) Define and discuss plan, mission, vision, goal and objectives | (8) |

OR

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|----|---|-----|
| 14 | a) Discuss any four organizational structures with suitable examples. | (8) |
| | b) What are the principles of organising? Explain | (6) |

Module III

- 15 a) Illustrate the difference between programmed and non-programmed decisions by highlighting suitable examples. (7)
- b) Explain in detail the various indexes used for measuring productivity. (7)

OR

- 16 a) A couple has just purchased a Victorian home to remodel into a bed and breakfast. The following table shows their expected profit (\$000s) the first year, depending on how many rooms they choose to remodel and demand. Draw a decision tree for the problem and suggest an optimal decision (7)

Alternative	Demand		
	0.30	0.50	.2
4 rooms	15	20	25
8 rooms	10	35	50
12 rooms	5	50	75

- b) Explain decision-making under risk and uncertainty (7)

Module IV

- 17 a) The following details are available regarding a project. Determine the critical path, critical activities and project completion time. Find EST, EFT, LST, LFT and float (10)

Activity	Preceding activity	Duration (week)
A	-	3
B	A	5
C	A	7
D	B	10
E	C	5
F	D, E	4

- b) Distinguish between PERT and CPM. (4)

OR

- 18 a) An R & D project has a list of tasks to be performed whose time estimates are given in the table below. (10)
- Draw the project network
 - Find critical path

- c. Find the probability that the project is completed in 19 days.

Activity	Activity	to	tm	tp
1-2	A	4	6	8
1-3	B	2	3	10
1-4	C	6	8	16
2-4	D	1	2	3
3-4	E	6	7	8
3-5	F	6	7	14
4-6	G	3	5	7
4-7	H	4	11	12
5-7	I	2	4	6
6-7	J	2	9	10

- b) Discuss the procedure of CPM analysis with the help of a simple example (4)

Module V

- 19 a) Discuss different sources of finance for business organizations. (7)
 b) What is the difference between selling and marketing? (7)

OR

- 20 a) Explain the importance of HRM in modern organizations. (8)
 b) Mention three examples of CSR activities. (6)
