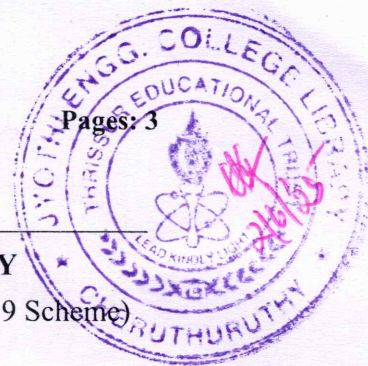


Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S5 (S,FE) (FT/PT) (S3PT) Examination May 2025 (2019 Scheme)

**Course Code: HUT310****Course Name: MANAGEMENT FOR ENGINEERS***(Use of normal distribution table is permitted)*

Max. Marks: 100

Duration: 3 Hours

PART A*(Answer all questions; each question carries 3 marks)*

Marks

- | | | |
|----|--|---|
| 1 | Explain different interpersonal managerial roles. | 3 |
| 2 | Explain about need for management with example. | 3 |
| 3 | What do you mean by span of control? Why it is needed? | 3 |
| 4 | List out the qualities of a good leader. | 3 |
| 5 | List out factors affecting productivity. | 3 |
| 6 | What is maxi-max and maxi-min criterion? | 3 |
| 7 | What is the need of dummy activity in a project network? | 3 |
| 8 | What is meant by project crashing? | 3 |
| 9 | Describe Corporate Social Responsibility with example. | 3 |
| 10 | Define entrepreneurship. | 3 |

PART B*(Answer one full question from each module, each question carries 14 marks)***Module -1**

- | | | |
|----|---|---|
| 11 | a) Explain the systems approach to management with a block diagram. | 7 |
| | b) What are different levels of management? Explain with examples | 7 |
| 12 | a) Illustrate seven characteristics of management. | 7 |
| | b) Describe the skills needed for managers. | 7 |

Module -2

- | | | |
|----|---|---|
| 13 | a) Explain the importance of delegation in management. | 7 |
| | b) What are the factors governing the selection of organisation structures. | 7 |
| 14 | a) Illustrate the different types of organisation structures. | 7 |
| | b) What are the different levels of planning? Explain. | 7 |

Module -3

- | | | |
|----|---|---|
| 15 | a) What are the main steps involved in decision making process? | 4 |
|----|---|---|

- b) 'Amizo is a small furniture shop which has focuss on making wooden benches. 10

The weekly value of its output, including finished goods and work in progress , is Rs 14280. The value of inputs, such as labour, materials and capital, is approximately Rs 16528.

- i) Compute the total productivity measure of Amizo furniture.
- ii) Amizo just purchased a new sanding machine that processes 17 benches in 8 hours. What is the productivity of that sanding machine.
- iii) Amizo hired two new workers to paint benches. They have painted 10 benches in 4 hours. What is their labour productivity.

- 16 A newspaper boy has the following probabilities of selling a magazine. 14

Number of copies sold	10	11	12	13	14
Probability	0.10	0.15	0.20	0.25	0.30

Cost of a copy is Rs.3 and sale price is Rs.5. He cannot return unsold copies. How many copies should he order? Find using EMV and EOL.

Module -4

- 17 a) A project has the following list of activities and time estimates. 10

Activity	Time (Days)	Immediate predecessors
A	1	-
B	4	A
C	3	A
D	7	A
E	6	B
F	2	C, D
G	7	E, F
H	9	D
I	4	G, H

Mark the critical path and find total project duration.

- b) Differentiate between activity and event in a project network. 4
- 18 a) The data regarding the activities in a project are given below. 10

SL No:	Activity	t_0 (Optimistic time)	t_m (Most likely time)	t_p (Pessimistic time)
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1	1-2	2	5	14
2	1-6	2	5	8
3	2-3	5	11	29
4	3-4	1	4	7
5	3-5	5	11	17
6	4-5	2	5	14
7	6-7	3	9	27
8	5-8	2	9	8
9	7-8	7	13	31

It is given that schedule date of completion of project is 38 days. a) Draw the PERT network. b) Find critical path c) Find the probability that project can be completed at the scheduled time.

- b) What are the limitations of PERT and CPM methods? 4

Module -5

- 19 a) Describe Marketing research Vs Market research. 6
b) Elaborate different demand forecasting methods. 8
20 a) Explain different types of Entrepreneur. 7
b) Explain the objectives of financial management. 7
