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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth Semester B.Tech Degree Supplementary Examination May 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
1	Discuss the different levels of management with examples.	(3)
2	Describe the significance of "contingency approach" in management.	(3)
3	Explain the role of communication in management.	(3)
4	Distinguish between Vision and Mision.	(3)
5	Comment on the situation of "Decision making under risk"?	(3)
6	Discuss management strategies to achieve competitiveness in the market?	(3)
7	Define a Project. Which project scheduling technique use probabilistic approach?	(3)
8	What is Dummy activity? What is its significance?	(3)
9	What are the key metrics of sustainability measurement?	(3)
10	Differentiate between qualitative and quantitative measures used in forecasting.	(3)

PART B

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

Module I

- 11 a) Management skill incorporates elements of both science and art. Comment on the statement with examples. (9)
- b) Explain System approach to management. (5)

OR

- 12 a) Illustrate the tasks and responsibilities of professional managers. (10)
- b) What are the limitations of classical organisation theory? (4)

Module II

- 13 a) What are the different leadership styles? Explain. (9)
- b) Discuss the role of motivation in management. (5)

OR

- 14 a) Compare the different organisational structures. (10)
 b) What is the role of delegation in management? (4)

Module III

- 15 a) Define productivity and discuss the factors affecting productivity. (10)
 b) An ice cream company produces 10,000 units of ice creams per day. Standard price is Rs.10/ unit. Labour cost was Rs.4000, Material cost was Rs.20000 and overhead was Rs.8000. Determine the multifactor productivity. (4)

OR

- 16 a) A firm owner is seriously considering of drilling a farm well. In the past, only 70 % of the wells drilled were successful at 250 feet of depth in the area. Moreover, on finding no water at 250 ft, some persons drilled it further upto 300 feet but only 20 % struck water at 300 ft. The prevailing cost of drilling is Rs. 50 per foot. The farm owner has estimated that in case he does not get his own well's water he will have to pay Rs 20,000 over the next 10 years, in present Value term to buy water from the neighbour. The following decisions can be optimal. (10)

- i) Do not drill any well
- ii) Drill upto 250 ft
- iii) If no water is found at 250 ft, drill further upto 300 ft.

Draw an appropriate decision tree and determine the farm owner's strategy under Expected Monetary Value approach.

- b) Discuss about decision making under certainty. (4)

Module IV

- 17 a) A project involves 7 activities, their time and estimates are given (10)
 (i). Draw the network diagram and find the expected project length.
 (ii). Find the expected duration and variance for each activity.
 (iii). What is the probability of project completion in 22 weeks?

Activity	Predecessor activity	Estimated duration (weeks)		
		Optimistic time (t_o)	Most likely time (t_m)	Pessimistic time (t_p)
A	—	1	1	7
B	A	1	4	7
C	A	2	2	8
D	B	1	1	1
E	C	2	5	14
F	D	2	5	8
G	E,F	3	6	15

- b) Discuss the common errors to be avoided while drawing network diagrams. (4)

OR

- 18 a) A project involves 6 activities as given in the table. (10)
- (i) Draw the network diagram.
- (ii) Using a forward pass, Determine the total project completion time.
- (iii) Using a backward pass, Determine slack for each activity.
- (iv) Determine the critical path.

Activity	Duration (Days)	Immediate predecessor
A	1	—
B	3	A
C	4	A
D	3	B
E	4	C
F	1	D,E

- b) What are the rules for constructing network diagram? (4)

Module V

- 19 a) Describe the functions of Human Resource Management. (10)
- b) Explain Corporate Social Responsibility and its significance. (4)

OR

- 20 a) Describe the different stages of entrepreneurial process. (10)
- b) Discuss about Intellectual property rights and its role in business world. (4)
