Reg No.:_____   Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Sixth Semester B.Tech Degree (R, S) Examination May 2024 (2019 Scheme)

Course Code: HUT310
Course Name: MANAGEMENT FOR ENGINEERS

Max. Marks: 100   Duration: 3 Hours

The use of normal distribution tables is permitted

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

1	Provide a definition for Management	(3)
2	"Management is a combination of arts, science and profession. Explain fully.	(3)
3	What are the objectives of planning?	(3)
4	Name the various leadership styles	(3)
5	What is meant by decision making?	(3)
6	What is the difference between production and productivity?	(3)
7	What do you mean by project management?	(3)
8	Explain the term critical path.	(3)
9	List the purpose and importance of recruitment.	(3)
10	What is marketing mix?	(3)

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

Module I

11	a)	List and Explain Managerial roles.	(7)
	b)	Compare and contrast the classical new-classical and modern approach towards organisations.	(7)

OR

12	a)	F.W.Taylor contributed some principles of management. Identify principles and explain briefly	(7)
	b)	Explain the importance of management in the present day business world.	(7)

Module II

13	a)	Differentiate between Strategic, Administrative and routine type planning	(7)
	b)	Describe the stages involved in the planning process	(7)

OR

14 a) Explain the principles of organisation   (7)

b) Explain organisation levels in terms of narrow and wide spans with sketches and   (7)
discuss its merits and demerits

Module III

15 a) Explain the term productivity and the means of increasing productivity in an   (6)
organisation.

b) Illustrate the difference between programmed and non programmed decisions by   (8)
highlighting suitable examples

OR

16 a) Explain the decision making process   (7)

b) Modern forest management uses controlled fires to reduce fire hazards and to   (7)
stimulate new forest growth. Management has the option to postpone or plan a
burning. In a specific forest tract, if burning is postponed, a general administrative
cost of ₹300 is incurred. If a controlled burning is planned, there is a 50% chance
that good weather will prevail and burning will cost ₹3200. The results of the
burning may be either successful with probability 0.6 or marginal with probability
0.4. Successful execution will result in an estimated benefit of ₹6000, and marginal
execution will provide only ₹3000 in benefits. If the weather is poor, burning will be
cancelled incurring a cost of ₹1200 and no benefit. Develop a decision tree for the
problem and analyse the decision tree and determine the optimal course of action.

Module IV

17 a) Draw the network diagram and determine the critical path for the following project: (10)

	Activity	Time estimate (weeks)
A	1-2	2
B	1-3	3
C	2-3	7
D	2-4	2
E	4-6	2
F	3-6	5
G	3-5	3
H	5-6	1
I	5-7	4
J	6-7	6

b) What are the uses of PERT and CPM? (4)

OR

18 a) The table shows activities of project. (10)

Activity	Preceding Activity	Optimistic time	Most likely time	Pessimistic Time
A	-	6	7	8
B	-	1	2	9
C	-	1	4	7
D	A	1	2	3
E	A,B	1	2	9
F	C	1	5	9
G	C	2	2	8
H	E,F	4	4	4
I	E,F	4	4	10
J	D,H	2	5	14
L	I,G	2	2	8

(i) Draw the PERT network for the project

(ii) Determine the critical path.

(iii) What is the probability of completing the project on or before 25 weeks

b) Explain the rules for network analysis in project management (4)

Module V

19 a) Explain the different forms of Intellectual Property Rights. (7)

b) "Corporate social responsibility is about giving back to society." In view of the statement, explain the concept of CSR and current CSR practices of firms in India. (7)

OR

20 a) List out the basic activities of human resource development (7)

b) Compare entrepreneur and manager (7)

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