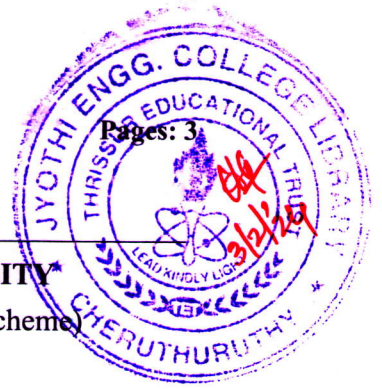


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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degre S6 (S, FE) Examination January 2024 (2019 Scheme)

Course Code: HUT310
Course Name: MANAGEMENT FOR ENGINEERS
(use of z table permitted)

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

		Marks
1	Compare classical and neo-classical management theories.	(3)
2	Give an account of functions performed at various levels of management.	(3)
3	Distinguish between plan, goal and procedure.	(3)
4	What are the elements of organization design?	(3)
5	What is the difference between production and productivity?	(3)
6	What is meant by pay off table?	(3)
7	Define project management. What are the three phases of project management?	(3)
8	Explain the term project crashing.	(3)
9	How entrepreneurs differ from workers.	(3)
10	Differentiate between orientation and training.	(3)

PART B

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

Module I

- 11 a) Who is a Manager? State the various Managerial skills needed by a manager. (6)
b) Explain the functions of management. (8)

OR

- 12 a) Henry Fayol contributed some principles of administrative management. Identify the principles and explain briefly. (10)
b) Write any two points in favour of management as a science and as an art. (4)

Module II

- 13 a) Write a short note on the importance of planning in an organization. (8)
b) What are the three major styles of leadership (6)

OR

- 14 a) Explain the need of motivation in management. (7)
 b) Illustrate managerial grid developed by Robert R. Blake and Jane S. Mouton. (7)

Module III

- 15 a) A company that makes shopping carts for supermarkets and other stores recently purchased some new equipment that reduces labour content of the jobs needed to produce the shopping carts. Prior to buying the new equipment, the company used five workers, who produced an average of 100 carts per hour. Labour cost was Rs.10 per hour and machine cost was Rs.40 per hour. With the new equipment, it was possible to transfer one of the workers to another department. Machine cost increased by Rs.10 per hour while output increased by 112 carts per hour. (10)
- a) Calculate labour productivity before and after the new equipment in terms of carts per worker per hour.
 b) Calculate multifactor productivity before and after the new equipment in carts per dollar.
- b) What are the factors affecting productivity. (4)

OR

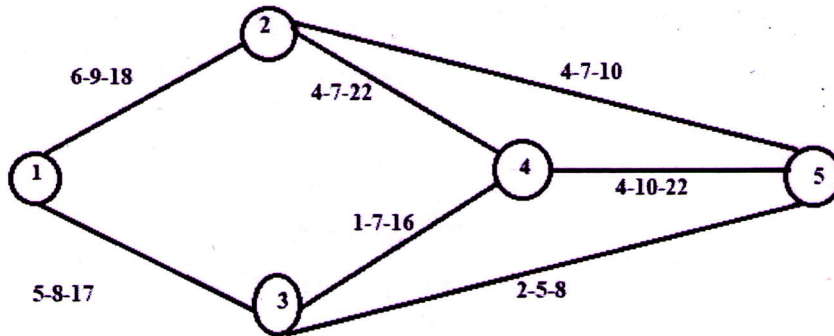
- 16 a) A manufacturer of goods has only three options available for the existing plant, viz., expand the present plant, build a new plant and subcontract extra production. The future events concern demand for the product. They are high demand, moderate demand, low demand and failure. The payoff table is given below. Obtain the best action based on savage principle (minimax regret). (8)

Alternatives	States of nature			
	High	Moderate	Low	Failure
Expand	500000	250000	-250000	-450000
Build	700000	300000	-400000	-800000
Subcontract	300000	150000	-10000	-100000

- b) Explain decision making under risk (6)

Module IV

- 17 a) For the network shown below the three time estimates (in days) for each activity are indicated on the diagram. Determine (14)
- The expected time and variance of each activity and the critical path.
 - The probability of completing the project in 32 days.



OR

- 18 a) The following are the six activities in a small scale industrial unit. Draw the network diagram and calculate EST, LST, EFT, LFT and float. Mark the critical path and find the total project duration. (10)

Activity	Time (Days)	Immediate Predecessor
A	5	-
B	6	A
C	5	B
D	4	A
E	3	D
F	4	C,E

- b) What is meant by events in a network diagram. How are the events classified. (4)

Module V

- 19 a) Explain the functions of human resource management. (7)
 b) What is meant by business plan. What is its significance in a company? (7)

OR

- 20 a) Explain the need for corporate social responsibility. (7)
 b) 'Marketing is the management process that identifies, anticipates and satisfies customer requirements profitably'. Explain (7)
