



Regulation R20

Subject code: C143PC1

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**

(Autonomous, Accredited by NAAC with 'A+' Grade)

**MBA III Semester Supplementary Examinations, February 2025**

**PRODUCTION AND OPERATIONS MANAGEMENT**

**Maximum Marks: 70**

Date:03.02.2025

**Duration: 3 hours**

- Note: 1.This question paper contains two parts A and B.  
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.  
 3. Part B consists of 5 Units. Answer any one full question from each unit.  
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks.

(5X4M=20 Marks)

1	Define Operations management.
2	Explain the major ergonomic considerations in product design.
3	Discuss about Group Technology layout.
4	Explain about palmer's heuristic procedure.
5	Write about VDE analysis?

Part-B

Answer the following questions.

(5X10M = 50 Marks)

6	Distinguish between production and Operations management. [10M]
OR	
7	Define productivity and discuss the strategies for improving productivity in organization. [10M]
8	Define product design and explain various approaches of product design in detail. [10M]
OR	
9	Explain the responsibilities of process planning Engineer and various steps involved in process planning. [10M]
10	Explain about single facility location problem with an illustration. [10M]
OR	
11	Explain the model to determine X and Y coordinates of a new machine. [10M]

12 The following table contains information regarding jobs that are to be scheduled through one machine. [10M]

Job	Processing Time	Due date
A	11	16
B	10	15
C	2	12
D	4	20
E	12	30
F	6	10
G	3	5

Estimate schedule using different priority rules and compare the results?

	OR	
13	Illustrate various forms of scheduling.	[10M]
14	Discuss in detail about deterministic & probabilistic models of inventory.	[10M]
	OR	
15	What do you understand by Economic Order Quantity? Describe the formula for determinants of EOQ.	[10M]