R18 Regulation *Subject code:2P8CA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VIII Semester Supplementary Examinations, May 2026

PRODUCTION PLANNING AND CONTROL

(ME)

Maximum Marks: 70 Date: 04.05.2026 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 (10X2M=20 Marks)		Marks	CO	BTL
1	Write the production system.	2M	1	L1
2	What is the importance of Forecasting?	2M	1	L1
3	Justify the importance of ABC analysis?	2M	2	L1
4	Write about inventory control system?	2M	2	L1
5	What is the RPW method?	2M	3	L1
6	Justify importance of Routing.	2M	3	L1
7	Write about master scheduling.	2M	4	L1
8	Appraise line of balancing (LOB).	2M	4	L1
9	Explain Dispatching.	2M	5	L1
10	List out any two applications of computers in PPC.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	What is a production system? Analyze the various types and functions of its in detail.	10M	1	L2
	OR			
12	Evaluate how forecasting is helpful in industry? Explain its types, techniques, methods in detail.	10M	1	L2
13	Explain Aggregate planning, its strategies and methods.	10M	2	L2
	OR			
14	Elaborate the importance of ABC analysis, VED analysis and Basic EOQ model.	10M	2	L2
15	Discuss the applications of Line balancing, Routing and route sheets in production.	10M	3	L2
	OR			
16	Support the concept of line balancing with the help of suitable example. Calculate all of its necessary parameters.	10M	3	L2

17	Perceive the importance of job shop and flow shop scheduling? Distinguish job shop and flow shop scheduling?	10M	4	L2
	OR			
18	Evaluate scheduling importance and explain in detail about scheduling policies? How scheduling effects production planning and control.	10M	4	L2
19	Evaluate the follow up and explain different types of the follow up in detail.	10M	5	L2
	OR			
20	Discuss in detail the sequential steps involved in dispatching.	10M	5	L2