

**PRAGATI ENGINEERING COLLEGE: SURAMPALEM**  
**(AUTONOMOUS)**  
**IV B.Tech II Semester Supplementary Examinations, May - 2024**  
**PRODUCTION PLANNING AND CONTROL**  
**(MECHANICAL ENGINEERING)**

Time: 3 hours

Max. Marks: 70M

**Answer ONE Question from each Unit**  
**All Questions Carry Equal Marks**

Q. No.	Questions	BTL	CO	Marks
<b>UNIT – I</b>				
1.	a) Define PPC. Write any 5 functions of PPC.	K1	CO1	7M
	b) What are various types of production? Explain their advantages and disadvantages.	K1	CO1	7M
<b>OR</b>				
2.	a) Explain some essential product design factors.	K1	CO1	7M
	b) Explain the objectives of PPC in detail.	K1	CO1	7M
<b>UNIT – II</b>				
3.	a) Give the classification of forecasting methods.	K3	CO2	7M
	b) What are the important features of any forecasting method.	K1	CO2	7M
<b>OR</b>				
4.	a) Which forecasting method can be used for new products? Explain in detail.	K1	CO2	7M
	b) What are the qualitative forecasting methods used for? Explain any one method.	K1	CO2	7M
<b>UNIT – III</b>				
5.	a) Explain P- Systems and Q-Systems in inventory control.	K1	CO3	7M
	b) Write a short note on ABC analysis.	K1	CO3	7M
<b>OR</b>				
6.	a) How the JIT is applied for production maximization? Explain with an example.	K2	CO3	7M
	b) What are different types of inventory costs? Explain.	K1	CO3	7M
<b>UNIT – IV</b>				
7.	a) Define 'Routing'. List the steps in routing procedure.	K2	CO4	7M
	b) What information is included on a route sheet? Explain with a model route sheet.	K3	CO4	7M
<b>OR</b>				
8.	a) What is bill of materials? How it is useful in inventory management?	K2	CO4	7M
	b) Explain different factors affecting routing procedure.	K2	CO4	7M
<b>UNIT – V</b>				
9.	a) Explain how dispatching is vital in PPC.	K2	CO5	7M
	b) How the computers are useful in PPC?	K1	CO5	7M
<b>OR</b>				
10.	a) Explain the advantages of follow-up step in PPC?	K1	CO5	7M
	b) Give a detailed account of activities of dispatcher.	K2	CO5	7M