



**P.E.S. College of Engineering, Mandya - 571 401**  
*(An Autonomous Institution affiliated to VTU, Belagavi)*  
**Seventh Semester, B.E. - Industrial and Production Engineering**  
**Semester End Examination; February - 2022**  
**Production Planning and Control**

Time: 3 hrs

Max. Marks: 100

**Course Outcomes**

The Students will be able to:

CO1: Describe concept of Production planning control and the Factors influencing Process planning.

CO2: Define concept of Productivity and Explain productivity improvement.

CO3: Summarize plant layout and Plant location concept.

CO4: Explain the applications of computers in production control.

CO5: Explain the concept of Record Management and its Mechanizations.

**Note:** I) **PART - A** is compulsory. **Two** marks for each question.

II) **PART - B:** Answer any **Two** sub questions (from a, b, c) for Maximum of **18 marks** from each unit.

Q. No.	Questions	Marks	BLs	COs	POs
<b>I : PART - A</b>		<b>10</b>			
I a.	Define PPC.	2	L1	CO1	PO1
b.	What is productivity?	2	L1	CO2	PO1
c.	Define four layouts.	2	L1	CO3	PO1
d.	What is the meaning of mechanization?	2	L1	CO5	PO1
e.	List any four areas of computer application.	2	L1	CO4	PO1
<b>II : PART - B</b>		<b>90</b>			
<b>UNIT - I</b>		<b>18</b>			
1 a.	Describe the moving average method and mention its advantages and disadvantages.	9	L2	CO1	PO1
b.	Narrate the objectives and production planning.	9	L2	CO1	PO2
c.	Explain the various factors influencing process planning.	9	L2	CO1	PO1
<b>UNIT - II</b>		<b>18</b>			
2 a.	List and explain the benefits of increased productivity.	9	L2	CO2	PO1
b.	Explain the improve productivity by reducing work content.	9	L2	CO2	PO1
c.	Explain the various types of measurement of productivity.	9	L2	CO2	PO1
<b>UNIT - III</b>		<b>18</b>			
3 a.	Discuss the factor that affects the location of plant.	9	L2	CO3	PO1
b.	Explain the different types of factors affecting the layout.	9	L2	CO3	PO1
c.	Explain the single facility location decision when the dominate factors are measurable costs.	9	L2	CO3	PO1

**UNIT - IV**

**18**

- |  |   |    |     |     |
|--|---|----|-----|-----|
| 4 a. Describe the application of computer in production control. | 9 | L2 | CO4 | PO1 |
| b. Explain the characteristics of MIS.                           | 9 | L2 | CO4 | PO1 |
| c. Narrate the structure of MIS.                                 | 9 | L2 | CO4 | PO1 |

**UNIT - V**

**18**

- |  |   |    |     |     |
|--|---|----|-----|-----|
| 5 a. Explain the qualities of a good report.       | 9 | L2 | CO5 | PO1 |
| b. Describe objectives of mechanizations.          | 9 | L2 | CO5 | PO1 |
| c. Explain the advantages of a good filing system. | 9 | L2 | CO5 | PO1 |

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