INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

TUTORIAL QUESTION BANK

Course Title	**PRODUCTION PLANNING AND CONTROL**
Course Code	**A80366**
Regulation	**R15**
Class	IV-II
Branch	Mechanical Engineering
Year	2018-2019
Course Coordinator	Mr. V Mahidhar Reddy, Assistant Professor
Team of Instructors	Mr. V Mahidhar Reddy, Assistant Professor Mr. M V Aditya Nag, Assistant Professor

OBJECTIVE:

The objective of this course is to understand the various components and functions of production product planning, process planning, production scheduling, Inventory Control. The course covers the fundamentals of Production Planning & the subsequent Production Control that follows an adaptation of product design and finalization of a production process. Production Planning & Control resolves a basic issue of low productivity, inventory management, and resource utilization and is needed for scheduling, dispatch, inspection, quality management, inventory management, supply management and equipment management. It guarantees target achievement by the production team, optimum resource utilization, quality management and cost savings.

UNIT 1			
PART – A (SHORT ANSWER QUESTIONS)			
S. No	**Question**	**Blooms Taxonomy Level**	**Course Outcome**
1	Define product Analysis.	Understand	1
2	Define Planning.	Remember	1
3	Define PPC.	Understand	2
4	Give details about the Production planning and Control.	Remember	1
5	Discuss about needs for PPC.	Understand	2
6	Define product Design.	Remember	1
7	Define miniaturation.	Remember	2
8	Define product analysis.	Understand	1
9	Define margin of safety.	Remember	2
10	Discuss about requirements of good design.	Understand	1
11	Discuss about problems in production management.	Remember	2
12	Define production.	Remember	1
13	Define planning.	Understand	2
14	Define control.	Remember	1
15	Define scheduling.	Understand	2
16	Define time estimating.	Remember	2
17	Define production budget.	Understand	1
18	Write a short note on Action Phase.	Understand	2

19	Write a short note on Control Phase.	Remember	2
20	Write a short note on Tool Control.	Understand	1
PART – B (LONG ANSWER QUESTIONS)			
1	List out the planning functions and controlling functions separately.	Understand	2
2	Differentiate between job shop, batch type and continuous production systems.	Understand	1
3	Classify the production systems. Mention characteristics of each of those systems.	Remember	2
4	What are the effects of PPC in real time industrial environment?	Understand	1
5	Compare various types of production systems.	Remember	2
6	Discuss the applications of computers in production control.	Understand	1
7	Mention the nature of PPC function in those respective production system	Understand	2
8	Explain the objectives of PPC.	Understand	1
9	Classify the production systems. Mention characteristics of each of those systems.	Remember	2
10	What are the effects of PPC in real time service sector?	Understand	1
11	Explain characteristics of Intermittent production systems	Understand	1
12	Explain characteristics of Continuous production systems.	Understand	2
13	Explain the principals of PPC.	Understand	1
14	Write short notes on internal organizations department.	Understand	2
15	Explain the different types of production system.	Understand	1
16	Define Production Planning and Control and its objectives	Understand	2
17	Analyze the importance of each of the functions of production planning and control.	Remember	1
18	Discuss the position of motion and time study in the organizational Structure of a manufacturing firm.	Understand	2
19	Write the principles of sound production control systems.	Understand	1
20	Describe continuous production. How does it differ from job order production.	Remember	1
UNIT II			
PART A (SHORT ANSWER QUESTIONS)			
1	Define sales forecasting	Understand	2
2	Define short term forecasting	Remember	3
3	Define long term forecasting	Understand	3
4	State advantages of short term forecasting	Remember	3
5	Write a short note on least square method.	Understand	3
6	State disadvantages of short term forecasting	Remember	3
7	State advantages of long term forecasting	Remember	3
8	Write a short note on exponential smoothing method.	Understand	3
9	State disadvantages of long term forecasting	Remember	3
10	Write a short note on analytical forecasting method.	Understand	3
11	Write a short note on the importance of sales forecasting.	Remember	3
12	Write a short note on statistical forecasting method.	Remember	3
13	Write the objectives of forecasting.	Understand	3
14	Write a short note on market potential.	Remember	3
15	List the methods of sales forecasting.	Understand	3
16	Discuss about limitations of least square method.	Remember	3
17	Write the advantages of exponential smoothing method.	Understand	3
18	Discuss about advantages of least square method.	Understand	3

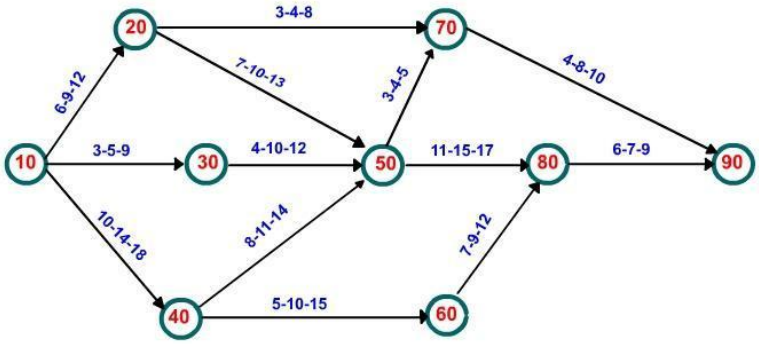
<table>
<tr><td>19</td><td>Write the limitations of exponential smoothing method.</td><td>Remember</td><td>3</td></tr>
<tr><td>20</td><td>Discuss about different types of forecasting.</td><td>Understand</td><td>3</td></tr>
<tr><td colspan="4">PART B (LONG ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Explain different types of fore casting.</td><td>Understand</td><td>3</td></tr>
<tr><td>2</td><td>Write short notes on importance of fore casting.</td><td>Understand</td><td>3</td></tr>
<tr><td>3</td><td>Explain the general principles of forecasting techniques.</td><td>Understand</td><td>3</td></tr>
<tr><td>4</td><td>Define forecasting and its uses.</td><td>Understand</td><td>3</td></tr>
<tr><td>5</td><td>Discuss about objectives of forecasting.</td><td>Understand</td><td>3</td></tr>
<tr><td>6</td><td>Explain the process of sales forecasting.</td><td>Understand</td><td>3</td></tr>
<tr><td>7</td><td>Discuss about qualitative methods of forecasting .</td><td>Remember</td><td>4,5</td></tr>
<tr><td>8</td><td>Discuss about Quantitative methods of forecasting.</td><td>Understand</td><td>3</td></tr>
<tr><td>9</td><td>Derive expression for smoothing constant.</td><td>Remember</td><td>4</td></tr>
<tr><td>10</td><td>Discuss about effects of smoothing constant on the quality of forecast.</td><td>Understand</td><td>3</td></tr>
<tr><td>11</td><td>Show that in exponential smoothing method, Weightage to the past data declines exponentially.</td><td>Understand</td><td>3</td></tr>
<tr><td>12</td><td>Explain exponential smoothing method of forecasting</td><td>Remember</td><td>4</td></tr>
<tr><td>13</td><td>Explain the following terms
a. Qualitative methods and
b. Quantitative methods.</td><td>Understand</td><td>3</td></tr>
<tr><td>14</td><td>Explain exponential smoothing method of forecasting. Also
Define forecasting and its uses.</td><td>Remember</td><td>4</td></tr>
<tr><td>15</td><td>Describe jury executive opinion method of sales forecasting.</td><td>Understand</td><td>3</td></tr>
<tr><td>16</td><td>Name and describe the various factors affecting sales forecasting.</td><td>Remember</td><td>4</td></tr>
<tr><td>17</td><td>Describe sales force composite method in sales forecasting.</td><td>Understand</td><td>3</td></tr>
<tr><td>18</td><td>Describe moving average method in sales forecasting.</td><td>Remember</td><td>4</td></tr>
<tr><td>19</td><td>a) Name the various methods of sales forecasting and describe any two of them with their advantages and limitations
b) Explain analytical method.</td><td>Understand</td><td>3</td></tr>
<tr><td>20</td><td>Describe survey of buyers’ intention method in sales forecasting.</td><td>Remember</td><td>4</td></tr>
<tr><td colspan="4">PART C (ANALYTICAL QUESTIONS)</td></tr>
<tr><td>1</td><td>A XYZ television supplier found a demand of 200 sets in July, 225 sets in August & 245 sets in September. Find the demand forecast for the month of october using simple average method. The average demand for the month of October</td><td>Apply</td><td>3,4</td></tr>
<tr><td>2</td><td>A XYZ refrigerator supplier has experienced the following demand for refrigerator during past five months.
<table><tr><th>Month</th><th>Demand</th></tr><tr><td>February</td><td>20</td></tr><tr><td>March</td><td>30</td></tr><tr><td>April</td><td>40</td></tr><tr><td>May</td><td>60</td></tr><tr><td>June</td><td>45</td></tr></table>
Find out the demand forecast for the month of July using five-period moving average & three-period moving average using simple moving average method.</td><td>Apply</td><td>4</td></tr>
<tr><td>3</td><td>The manager of a restaurant wants to make decision on inventory and overall cost. He wants to forecast demand for some of the items based on weighted moving average method. For the past three months he experienced a demand for pizzas as follows:</td><td>Apply</td><td>4</td></tr>
</table>

	<table><tr><th>Month</th><th>Demand</th></tr><tr><td>October</td><td>400</td></tr><tr><td>November</td><td>480</td></tr><tr><td>December</td><td>550</td></tr></table> Find the demand for the month of January by assuming suitable weights to demand data.		
4	One of the two wheeler manufacturing company exprienced irregular but usually increasing demand for three products. The demand was found to be 420 bikes for June and 440 bikes for July. They use a forecasting method which takes average of past year to forecast future demand. Using the simple average method demand forecast for June is found as 320 bikes (Use a smoothing coefficient 0.7 to weight the recent demand most heavily) and find the demand forecast for August.	Apply	3,4
5	Farewell Corporation manufactures Integrated Circuit boards(I.C board) for electronics devices. The planning department knows that the sale of their client goods depends on how much they spend on advertising, on account of which they receive in advance of expenditure. The planning department wishes to find out the relationship between their clients advertising and sales, so as to find demand for I.C board. The money spend by the client on advertising and sales (in dollar) is given for different periods in following table : <table><tr><th></th><th>Advertising (Xt)</th><th>Sales (Dt)</th><th></th><th></th><th></th></tr><tr><th>Period(t)</th><th></th><th></th><th>Dt^2</th><th>Xt^2</th><th>XtDt</th></tr><tr><th></th><th>$(1,00,000)</th><th>$(1,000.000)</th><th></th><th></th><th></th></tr><tr><td>1</td><td>20</td><td>6</td><td>36</td><td>400</td><td>120</td></tr><tr><td>2</td><td>25</td><td>8</td><td>64</td><td>625</td><td>200</td></tr><tr><td>3</td><td>15</td><td>7</td><td>49</td><td>225</td><td>105</td></tr><tr><td>4</td><td>18</td><td>7</td><td>49</td><td>324</td><td>126</td></tr><tr><td>5</td><td>22</td><td>8</td><td>64</td><td>484</td><td>176</td></tr><tr><td>6</td><td>25</td><td>9</td><td>81</td><td>625</td><td>225</td></tr><tr><td>7</td><td>27</td><td>10</td><td>100</td><td>729</td><td>270</td></tr><tr><td>8</td><td>23</td><td>7</td><td>49</td><td>529</td><td>161</td></tr><tr><td>9</td><td>16</td><td>6</td><td>36</td><td>256</td><td>96</td></tr><tr><td>10</td><td>20</td><td>8</td><td>64</td><td>400</td><td>120</td></tr><tr><td></td><td>211</td><td>76</td><td>592</td><td>4597</td><td>1599</td></tr></table>	Apply	3,4
UNIT III			
PART A (SHORT ANSWER QUESTIONS)			
1	Define Inventory.	Understand	5
2	List various types of inventory.	Remember	6
3	Explain why inventory should be maintained.	Understand	7
4	Discuss about safety stock.	Remember	5
5	Write a short note on direct inventory.	Understand	6
6	State indirect inventory.	Remember	7
7	Discuss about lead time.	Remember	7
8	Define reorder point.	Understand	6
9	Write a short note on order quantity.	Remember	5

10	Write a short note on economic order quantity.	Understand	5
11	State formula for economic order quantity.	Remember	7
12	Explain why safety stock is needed.	Remember	6
13	Discuss about types of inventory models.	Understand	5
14	Discuss about characteristics of two bin system.	Remember	7
15	Write a short note on tool control system.	Understand	6
16	Define periodic inventory ordering system.	Remember	6
17	Write a short note on purchase cost.	Understand	5
18	Define ordering cost.	Understand	7
19	Write a short note on carrying cost.	Remember	6
20	Define stock out cost.	Understand	6
PART B (LONG ANSWER QUESTIONS)			
1	How do you classify inventories into A class, B class and C class items.	Understand	6
2	Mention the control procedures are to be exercised on A class; B class and C class items.	Understand	5
3	Derive the Wilson EOQ formula	Remember	7
4	Explain various costs associated with inventory	Understand	6
5	Explain the VED analysis	Remember	6
6	Explain in detail about P-System	Understand	5
7	Explain in detail about Q-System	Remember	7
8	Mention the control procedure is to be exercised on A class, B class and C class items.	Understand	6
9	Explain the procedure involved in carrying ABC analysis	Understand	6
10	What are short comings of ABC classification?	Understand	5
11	Explain the effect of demand on Inventories.	Understand	7
12	Explain in brief Reorder Quantity.	Understand	6
13	Explain various functions of inventory.	Understand	6
14	Describe the EOQ problem with one price break.	Understand	5
15	Describe the various re ordering systems with their advantages and limitations.	Remember	7
16	Describe in detail ABC analysis. State its advantages, limitations and applications.	Understand	6
17	Describe briefly the ABC, HML and VED analysis of inventory control.	Understand	5
18	a. Explain various steps involved in MRP system. b. Explain the JIT Kanban working principle.	Understand	7
19	a. What types of demand are formally considered in MRP. b. Explain the methodology of MRP system briefly	Remember	6
20	a. List out and explain any three various segments of ERP system. b. Define Line Of Balance (LOB). State its objectives.	Remember	6
21	a. Write short notes on. Japanese concepts. b. Write short notes on MRP	Understand	5
PART C (ANALYTICAL QUESTIONS)			
1	ABC manufacturer's produces 1, 25,000 oil seals each year to satisfy the requirement of their client. They order the metal for the bushing in lot of 30,000 units. It cost them $40 to place the order. The unit cost of bushing is $0.12 and the estimated carrying cost is 25% unit cost. Find out the economic order quantity. What percentage of increases or decrease in order quantity is required so that the ordered quantity is Economic order quantity.	Understand	6
2	The XYZ Company produces wheat flour as one of their product. The wheat flour is produced in the pack of 1kg. The demand for wheat flour is 40,000 packs/year& the production rate is 50,000 packs/year. Wheat flour 1kg pack cost $0.50 each to make. The Procurement cost is $5. The carrying cost is high because the product gets spoiled in few week times span. It is nearly 50 percent of cost of one pack. Find out the operating doctrine.	Understand	5
3	Discuss about practical limitations of the EOQ formula A company	Understand	6

<table>
<tr><td></td><td>requires 10000 units of an item per annum. The cost of ordering is Rs. 100 per order. The inventory carrying cost is 20%. The unit price of the item is Rs. 10. Calculate
a. the economic order quantity
b. Optimal total annual cost
c. Time between the orders.
d. Define inventory.</td><td></td><td></td></tr>
<tr><td>4</td><td>a. Describe the MRP process, including netting,
b. Describe the exposing and time phasing</td><td>Understand</td><td>5</td></tr>
<tr><td>5</td><td>a. Explain the following inputs of MRP systems Master Production schedule
b. Explain the following inputs of MRP systems Bill of Material</td><td>Remember</td><td>7</td></tr>
<tr><td>6</td><td>Find the optimal order quantity for a product for which the price breaks are as follows.
<table><tr><td>Quantity (units)</td><td>Price per unit(rupees)</td></tr><tr><td>$0 \leq q1 < 500$
$200 \leq q2 < 750$
$750 \leq q3$</td><td>10.00
9.25
8.75</td></tr></table></td><td>Remember</td><td>6</td></tr>
<tr><td colspan="4">UNIT - IV</td></tr>
<tr><td colspan="4">PART A (SHORT ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Define scheduling.</td><td>Understand</td><td>8</td></tr>
<tr><td>2</td><td>State objectives and advantages of scheduling.</td><td>Remember</td><td>9</td></tr>
<tr><td>3</td><td>Define production control.</td><td>Understand</td><td>10</td></tr>
<tr><td>4</td><td>State the purpose of scheduling</td><td>Remember</td><td>8</td></tr>
<tr><td>5</td><td>Write the factors affecting scheduling.</td><td>Understand</td><td>9</td></tr>
<tr><td>6</td><td>Write the types of scheduling.</td><td>Remember</td><td>10</td></tr>
<tr><td>7</td><td>Define master schedule.</td><td>Remember</td><td>10</td></tr>
<tr><td>8</td><td>Draw man machine chart.</td><td>Understand</td><td>8</td></tr>
<tr><td>9</td><td>Write a short note on Gantt chart.</td><td>Remember</td><td>9</td></tr>
<tr><td>10</td><td>Write the Johnson’s rule for scheduling.</td><td>Understand</td><td>10</td></tr>
<tr><td>11</td><td>Define critical ratio.</td><td>Remember</td><td>9</td></tr>
<tr><td>12</td><td>Define line balancing.</td><td>Remember</td><td>10</td></tr>
<tr><td>13</td><td>What do you mean by MRP.</td><td>Understand</td><td>8</td></tr>
<tr><td>14</td><td>State objectives of MRP.</td><td>Remember</td><td>9</td></tr>
<tr><td>15</td><td>List MRP system components.</td><td>Understand</td><td>9</td></tr>
<tr><td>16</td><td>Define routing.</td><td>Remember</td><td>10</td></tr>
<tr><td>17</td><td>Define bill of materials.</td><td>Understand</td><td>9</td></tr>
<tr><td>18</td><td>Write a short note on aggregate planning.</td><td>Understand</td><td>10</td></tr>
<tr><td>19</td><td>Write a short note on chase planning.</td><td>Remember</td><td>8</td></tr>
<tr><td>20</td><td>Write a short note on expediting.</td><td>Understand</td><td>8</td></tr>
<tr><td colspan="4">PART B (LONG ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Discuss in detail the following functions of routings Interpretation of detailed drawings</td><td>Understand</td><td>8</td></tr>
<tr><td>2</td><td>Discuss in detail the following functions of routings Methods analysis .</td><td>Understand</td><td>9</td></tr>
<tr><td>3</td><td>Distinguish between the route card and route sheet, with an example</td><td>Remember</td><td>10</td></tr>
<tr><td>4</td><td>Discuss about factors affecting routing procedure</td><td>Understand</td><td>9</td></tr>
<tr><td>5</td><td>State the important factors that affecting routing procedure</td><td>Remember</td><td>10</td></tr>
<tr><td>6</td><td>Explain the importance of bills of material in production control. How does it help in assembly production.</td><td>Understand</td><td>8</td></tr>
<tr><td>7</td><td>Distinguish between loading and scheduling</td><td>Remember</td><td>9</td></tr>
<tr><td>8</td><td>Explain the importance of route sheet in scheduling a job.</td><td>Remember</td><td>9</td></tr>
<tr><td>9</td><td>a. Write a short note on route sheet.</td><td>Understand</td><td>8</td></tr>
</table>

<table>
<tr><td></td><td>b. Write a short note on the information it contains</td><td></td><td></td></tr>
<tr><td>10</td><td>Distinguish between single level bill of materials and indented bill of materials, with an example for each type</td><td>Remember</td><td>9</td></tr>
<tr><td>11</td><td>Distinguish between the route card and route sheet, with an example</td><td>Understand</td><td>10</td></tr>
<tr><td>12</td><td>Discuss in detail on Routing Procedure</td><td>Understand</td><td>9</td></tr>
<tr><td>13</td><td>Discuss in detail on Route Sheets & Route card</td><td>Understand</td><td>10</td></tr>
<tr><td>14</td><td>Explain factors effecting routing procedure.</td><td>Understand</td><td>8</td></tr>
<tr><td>15</td><td>Explain the factors to be considered for bill or materials.</td><td>Understand</td><td>8</td></tr>
<tr><td>16</td><td>Explain scheduling in brief.</td><td>Understand</td><td>9</td></tr>
<tr><td>17</td><td>a. Write a short note on the distinction between a scheduling rule and scheduling criterion
b. Explain the scheduling rules with their relativeadvantages and disadvantages</td><td>Remember</td><td>10</td></tr>
<tr><td>18</td><td>a. Discuss in detail on Job shop.
b. Discuss in detail on Flow shop</td><td>Understand</td><td>9</td></tr>
<tr><td>19</td><td>a. Discuss in detail on Scheduling polices.
b. Discuss in detail on Job shop and Flow shop</td><td>Remember</td><td>10</td></tr>
<tr><td>20</td><td>a. List out various scheduling rules. Explain at least three of them
b. State the standard scheduling methods. Explain at least one in detail</td><td>Remember</td><td>8</td></tr>
<tr><td colspan="4">PART C (ANALYTICAL QUESTIONS)</td></tr>
<tr><td>1</td><td>a. Describe any one method of sequencing of jobs for arriving at minimum elapsed time for loading on two machines and N jobs

b. Calculate minimum elapsed time for processing te jobs on two machines with the time period hours as shown on the each of the machine given below Jobs are to be processes first on the machine 1
<table>
<tr><td rowspan="2">Machine</td><td colspan="6">Jobs</td></tr>
<tr><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td></tr>
<tr><td>M1</td><td>4</td><td>8</td><td>3</td><td>6</td><td>7</td><td>5</td></tr>
<tr><td>M2</td><td>6</td><td>3</td><td>7</td><td>2</td><td>8</td><td>4</td></tr>
</table></td><td>Understand</td><td>8</td></tr>
<tr><td>2</td><td>Explain the following devices used for loading andscheduling Product-Trol Board . Also Explain the following devices used for loading andscheduling Sched-U-Graph</td><td>Understand</td><td>9</td></tr>
<tr><td>3</td><td>In the network of figure below, the PERT time estimates of the activities are written along the activity arrows in the order to-tm-tp. Compute the expected time and variance for each activity. Also compute the expected duration and standard deviation for the following paths of the network.
a. 10-20-50-80-90
b. 10-30-50-70-90
c. 10-40-60-80-90
 
</td><td>Understand</td><td>10</td></tr>
</table>

	The computation of expected times and variances for different activities are carried in a table given below. Activity | Time Estimates | Expected Time | Variance i | j | t_0 | t_m | t_p | t_E | σ^2 10 | 20 | 6 | 9 | 12 | 9.00 | 1.00 10 | 30 | 3 | 5 | 9 | 5.33 | 1.00 10 | 40 | 10 | 14 | 18 | 14.00 | 1.78 20 | 50 | 7 | 10 | 13 | 10.00 | 1.00 20 | 70 | 3 | 4 | 8 | 4.5 | 0.69 30 | 50 | 4 | 10 | 12 | 9.33 | 1.78 40 | 50 | 8 | 11 | 14 | 11.00 | 1.00 40 | 60 | 5 | 10 | 15 | 10.00 | 2.78 50 | 70 | 3 | 4 | 5 | 4.00 | 0.11 50 | 80 | 11 | 15 | 17 | 14.67 | 1.10 60 | 80 | 7 | 9 | 12 | 9.17 | 0.69 70 | 90 | 4 | 8 | 10 | 7.67 | 1.00 80 | 90 | 6 | 7 | 9 | 7.17 | 0.25		
4	a) Explain the problems of random order scheduling. b) Explain multiproduct scheduling in Batch production.	Remember	8
5	Describe a)master scheduling b)Production scheduling	Remember	9
	UNIT - V		
	PART A (SHORT ANSWER QUESTIONS)		
1	Write a short note on Dispatching.	Understand	11
2	Discuss about activities of dispatcher.	Remember	12
3	Explain dispatching rule.	Understand	11
4	Define move order.	Remember	12
5	Write a short note on tool order.	Understand	12
6	Define job ticket.	Remember	11
7	Write a short note on inspection order.	Remember	12
8	Define store order.	Understand	12
9	Write a short note on finished product order.	Remember	11
10	Define machine load chart.	Understand	12
11	Write a short note on material requisition form.	Remember	11
12	Define move ticket.	Remember	12
13	Write a short note on inspection ticket.	Understand	12
14	Define labor card.	Remember	11
15	Define tool and gauge ticket.	Understand	12
16	List the advantages of centralized dispatching.	Remember	11
17	Write the rules of dispatching.	Understand	12
18	List the disadvantages of centralized dispatching.	Understand	12
19	Define critical ratio.	Remember	11
20	List the advantages of decentralized dispatching.	Understand	12
	PART B (LONG ANSWER QUESTIONS)		
1	Explain in detail about various Dispatching procedure.	Understand	11
2	Explain in detail about various Activities of dispatches	Remember	12
3	Explain in detail about various Applications of computer in PPC.	Remember	12
4	a. Discuss in detail about follow up b. Explain follow up significance in production	Remember	11
5	Explain the applications of computer in Production Planning & Control	Remember	11
6	Explain various activities of dispatcher	Understand	12

7	a. List out various forms raised by dispatcher. b. Explain any three with neat sketch	Understand	12
8	Describe the forms used in dispatching Move order	Remember	11
9	Describe the forms used in dispatching Production ticket	Understand	12
10	Discuss about, a) issue of move orders. b) issue of tool orders.	Understand	11
11	Discuss in detail the sequential steps involved in dispatching	Understand	12
12	Explain the applications of computer in Production Planning & Control	Understand	12
13	Discuss about a) issue of inspection orders. b) Issue of job orders.	Understand	11
14	Explain briefly about centralized dispatching.	Understand	11
15	Explain briefly about combination rules.	Understand	12
16	Discuss about a) issue of inspection orders. b) Issue of orders to finished product stores.	Understand	12
17	Explain briefly about decentralized dispatching.	Understand	11
18	Explain briefly about the duties of a dispatcher.	Understand	12
19	Explain briefly about the sequence of dispatching activities	Understand	11
20	Explain about manufacturing order with a neat flow chart.	Understand	12
PART C (ANALYTICAL QUESTIONS)			
1	Discuss advantages and disadvantages of centralized and decentralized dispatching.	Remember	11
2	Discuss various orders triggered in a manufacturing firm by a centralized dispatching department.	Understand	12
3	Explain centralized and decentralized system of dispatching.	Remember	12
4	Describe duties of dispatching and discuss dispatching procedure.	Understand	11
5	Describe the following forms used in dispatching: (a) Move order (b) Production ticket.	Understand	12
6	Explain the reasons for existence of follow-up functions.	Remember	11
7	Discuss in details about dispatching rules used in shop floor.	Understand	12
8	Explain briefly the dispatching activities and the necessity of close control in dispatching activities.	Remember	12
9	Explain about the Dispatching. Also Enumerate the duties of a Dispatcher with list of records maintained by Dispatching Department.	Understand	11
10	With the help of a Organizational Charts, explain the Centralized and Decentralized System of Dispatching.	Understand	11
11	Explain how do you present production delays. Also discuss about the courses of production delays with examples.	Remember	12
12	With the help of a Organizational Charts, explain the Centralized and Decentralized System of Dispatching. Also List the merits and demerits of Centralized and decentralized system of dispatching.	Understand	12

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