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Total No. of Printed Pages: 2



Enrollment No.....

Faculty of Engineering
End Sem Examination May-2023
ME3EI03 Production Planning & Control
Programme: B.Tech. Branch/Specialisation: ME

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Which of the following functions of Production Planning and Control is related to the timetable of activities? **1**
(a) Scheduling (b) Dispatching
(c) Expediting (d) Routing
- ii. The correct sequence of operations in the Production Planning and Control process is _____. **1**
(a) Routing – Scheduling – Follow up – Dispatching
(b) Scheduling – Follow up – Dispatching – Routing
(c) Routing – Scheduling – Dispatching – Follow up
(d) Dispatching – Routing – Scheduling – Follow up
- iii. At breakeven point there is- **1**
(a) Profit (b) Loss (c) No profit or loss (d) None of these
- iv. Production planning is essential for _____. **1**
(a) Inventory management (b) Quality management
(c) Supply management (d) All of these
- v. Which of the following is NOT a time-series model? **1**
(a) Moving Average (b) Naïve Approach
(c) Exponential smoothing (d) Linear Regression
- vi. Delphi method is used for- **1**
(a) Judgmental forecast (b) Time series forecast
(c) Associative model (d) All of these
- vii. Johnson Rule is used for- **1**
(a) Sequencing Problem (b) Assignment Problem
(c) Aggregate Planning (d) Scheduling

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- viii. Gantt chart is mostly used for- **1**
(a) Routing (b) Scheduling
(c) Follow up (d) Inspection and quality control
- ix. Work study involves- **1**
(a) Method study (b) Work measurement
(c) Both (a) and (b) (d) Motion study
- x. Basic tool in Time study is- **1**
(a) Graph Paper (b) Process Chart
(c) Planning Chart (d) Stop Watch
- Q.2 i. What are the objective of planning & control? **2**
ii. Explain the different type of Production system. **3**
iii. What do you understand by standardization? **5**
- OR iv. Explain the different aspect of product development & design. **5**
- Q.3 i. Explain process planning design. **4**
ii. Differentiate process planning and facility planning. **6**
- OR iii. What is the break-even point, and why is it important? **6**
- Q.4 i. What is the importance of forecasting? **4**
ii. What are the types of forecasting? Explain any one in brief. **6**
- OR iii. Describe 'Exponential Smoothing Method' of sales forecasting. State its advantages and limitations. **6**
- Q.5 i. What do you understand by Loading and scheduling? **4**
ii. Define routing. Explain the routing procedure in brief. **6**
- OR iii. Describe Gantt charts. What are their uses? **6**
- Q.6 Attempt any two: **5**
i. Explain work study. Also explain its objectives. **5**
ii. Explain steps in conducting method study. **5**
iii. Define objectives and concepts of work measurement. **5**

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Marking Scheme**ME3EI03 Production Planning & Control**

Q.1	i.	a. Scheduling	1
	ii.	b. Routing – Scheduling – Dispatching – Follow up	1
	iii.	At breakeven point there is c. No profit or loss	1
	iv.	Production planning is essential for _____. d. All of the above	1
	v.	Which of the following is NOT a time-series model? d. Linear Regression	1
	vi.	Delphi method is used for a. Judgmental forecast	1
	vii.	Johnson Rule is used for a. Sequencing Problem	1
	viii.	Gantt chart is mostly used for b. Scheduling	1
	ix.	Work study involves c. Method study and work measurement	1
	x.	Basic tool in Time study is d. Stop Watch	1
Q.2	i.	Objective of planning & control?	2
	ii.	type of Production system.	3
	iii.	Standardization explain & example	5
OR	iv.	product development & design aspect	5
Q.3	i.	Explain process planning design.	4
	ii.	Differentiate process planning and facility planning.	3+3
OR	iii.	What is the break-even point, and why is it important?	3+3
Q.4	i.	Forecasting & importance	1+3
	ii.	What are the types of forecasting? Explain any one in brief.	3+3
OR	iii.	Describe 'Exponential Smoothing Method' of sales forecasting. State its advantages and limitations	2+2+2
Q.5	i.	Define routing. Explain the routing procedure in brief.	2+2
	ii.	What do you understand by Loading and scheduling?	3+3

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OR	iii.	Describe Gantt charts. What are their uses?.	3+3
Q.6		Attempt any two:	
	i.	Explain work study. Also explain its objectives	2+3
	ii.	Explain steps in conducting method study.	5
	iii.	Define objectives and concepts of work measurement.	3+2

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