



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – MBA-2022/MBA-2023 Course Name – Production and Operations Management Course Code - MBA203 (Semester II)

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=1

- Choose the correct alternative from the following :
- (i) Identify the primary objective of a production system.
 - a) Minimise efficiency

b) Maximise costs

c) Maximise revenue

- d) Optimize resource utilization
- (ii) Identify the term that best describes the process of converting inputs into desired outputs within a business organization.
 - a) Operation

b) Quality Management

c) Warehousing

- d) Logistics
- (iii) Identify the primary duties and responsibilities of a production manager.
 - a) Planning, organizing, and controlling production processes
- b) Marketing and sales management

c) Financial analysis

- d) Human resources management
- (iv) Select the type of layout used in industries with high customization with low-volume and high-variety production.
 - a) Cellular layout

b) Product layout

c) Process layout

- d) Fixed-position layout
- Identify the maintenance strategy that focuses on scheduled inspections and repairs to prevent equipment failures.
 - a) Reactive maintenance

b) Corrective maintenance

c) Preventive maintenance

- d) Predictive maintenance
- (vi) Select the type of maintenance that aims to maintain equipment and facilities in optimal condition to prevent breakdowns.
 - a) Breakdown maintenance

b) Preventive maintenance

	c) Corrective maintenance	d) Reactive maintenance ess in material handing.	
	a) Conveying	d) Assembly	
	Identify the key advantage of effective material	d) Decreased delays management.	
	a) Employee motivation c) Customer satisfaction Select the classification technique that categorizes	b) Quality assurance d) Resource Allocation sitems based on value and criticality.	
	a) ABC analysis c) XYZ analysis Explain the process by which inventory control im	b) VED analysis d) FSN analysis pact production operations.	
	a) Rises costs c) Decreases efficiency Explain "lead time" in the context of inventory ma	b) Increases lead time d) Reduces stockouts magement.	
(xiii)	a) Time taken to place an orderc) Time taken for production from inventoryChoose from the following explains the concept or	b) Time taken for inventory to expired) Time taken for an order to arrivef asset utilization in maintenance.	
	a) Maximizing the value of inventory assetsc) Minimizing the downtime of assetsJustify the significance of "reorder point" in inventory	b) Maximizing the efficiency of equipmentd) Optimizing storage space for inventory	
	a) The point at which inventory is reorderedc) The point at which inventory is disposedExplain the meaning of queuing theory in capacit	b) The point at which inventory is received d) The point at which inventory is sold y planning.	
	a) Technique for scheduling production activities	b) Method for managing waiting times	
	c) Strategy for optimizing inventory levels	d) Approach for designing facility layouts	
	Grou	•	- 45
	(Short Answer Ty	/pe Questions) 3)	¢ 5=15
m	nalyze the challenges and benefits associated with anufacturing system in a production environment		(3)
4. Th wi	plain economic order quantity (EOQ). Here are 7 activities A,B,C,D,E,F and G. A and B star Il start after A. E will start after B and F will start a Impleted. Draw a network diagram using AoA met	t simultaneously at the beginning. C and D fter C. G can start only when D and E are	(3)
5. Su	mmarize the stages involved in the manufacturing telly explaining each one.		(3)
6. Co F. 1	nsider two paths of a project network diagram. The second path consists of activities A, C, E and I d F are 5,4,7,8,9,4 days respectively. Evaluate the	The times required for activities A,B,C,D,E duration for the critical path	(3)
	plain the significance of resource leveling in project stromes.		(3)

Group-C

	(Long Answer Type Questions)	5 x 6=30
7.	Analyse the advantages and disadvantages of product layout and process layout of a production system.	(5)
8.	Explain the importance of safety stock for keeping things running smoothly in a supply chain.	. (5)
9.	the second secon	(5)
•	Explain the need for total quality management (TQM) in organizations.	(5)
	. Evaluate the effectiveness of various material handling procedures in the production system.	(5)
	Explain different levels of decisions taken in a production unit.	(5)
	OR	
	Evaluate the effectiveness of control charts in quality management.	(5)