

**MASTER OF BUSINESS ADMINISTRATION
SECOND SEMESTER [SPECIAL REPEAT]
PRODUCTION AND OPERATION MANAGEMENT
MBA – 206**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

Marks: 20

(Objective)

1 × 20 = 20

Choose the correct answer from the following:

1. Production can be viewed as a system that involves a series of interrelated..... processes and components.
 - a. Rules and Regulations
 - b. Processes and components
 - c. Operations
 - d. Standards
2. Production is a critical organizational function that involves.....into finished goods or services that can be sold to customers.
 - a. Identifying opportunities
 - b. Developing Mechanism
 - c. Transforming raw materials
 - d. Reducing Wastage
3. Which function of Production involves determining the organization's production capacity and ensuring that it is aligned with demand?
 - a. Layout Planning
 - b. Process Planning
 - c. Capacity Planning
 - d. None of the above
4. Which function involves determining the sequence of production activities and allocating resources to ensure that products are produced on time?
 - a. Transportation Planning
 - b. Production Planning
 - c. Service Planning
 - d. Production Scheduling
5. Which function involves monitoring production processes, testing products, and implementing corrective actions when necessary?
 - a. Process Control
 - b. Job Control
 - c. Quality Control
 - d. Noise Control
6.was a system of mass production where workers were stationed along a moving conveyor belt and each performed a specific task in the assembly process.
 - a. Toyota Process
 - b. Mercedes Flow Line
 - c. Ford assembly line
 - d. None of the above
7. One of the primary characteristics of modern production and operation function is its focus on meeting the needs and expectations of
 - a. Production Manager
 - b. Logistics Manager
 - c. Customers
 - d. Supplier
8. Modern production and operation function places a high emphasis on and reducing the environmental impact of production.
 - a. Equality
 - b. Durability
 - c. Sustainability
 - d. Transferability

9. Which function involves making macroscopic decisions about the overall process route for converting raw materials into finished goods?
 - a. Product Design
 - b. Warehouse Design
 - c. Layout Design
 - d. None of the above
10. Which production process is suitable for variety of products in varying volumes?
 - a. Job Process
 - b. Project Production
 - c. Batch Process
 - d. Assembly Line
11. Which of the following is NOT a major factor regarding of Process Decision?
 - a. Cost of Production
 - b. Quality of Product
 - c. Customer Approval
 - d. Volume of Production
12. Which one of the following should be done to ensure judicious use of resources?
 - a. Buying materials a lower cost
 - b. Over stocking of resources
 - c. Proper Allocation of Resource
 - d. Under Stocking of Resources
13. In which Layout, machines are grouped in one sequence?
 - a. Group Technology
 - b. Product/Line Layout
 - c. Fixed Position Layout
 - d. Process Layout
14. Which of the following is NOT a factor considered for location?
 - a. Political & Economic Stability
 - b. Labor Availability
 - c. Customer Preferences
 - d. Proximity to the market
15. Which theory suggests that the location of a manufacturing facility should be determined by the minimization of transportation costs?
 - a. Factor Proportions Theory
 - b. New Economic Geography Theory
 - c. Von Thunen's Model
 - d. Weber's Theory of Industrial Location
16. Which of the following is a method of finding optimal feasible solution for transportation?
 - a. Shortest Path Method
 - b. Critical Path Method
 - c. Voggels Approximation Method
 - d. None of the Above
17. Lean manufacturing was largely created by
 - a. Toyota Motors
 - b. Benz Motors
 - c. Ford Motors
 - d. None of the above
18. Which Certification is related to QMS (Quality management Systems)?
 - a. ISO 26000
 - b. ISO 28000
 - c. ISO 9001:2008
 - d. ISO 31000
19. Which of the following is NOT a form of inventory in a manufacturing unit?
 - a. Finished Goods
 - b. Raw Materials
 - c. Semi Finished goods
 - d. Machinery
20. Which trend involves businesses shifting from producing goods to offering services that complement their products?
 - a. Standardization
 - b. Switching
 - c. Servitization
 - d. Cross Functioning

(Descriptive)

Time : 2 Hr. 30 Mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. What are the key characteristics of modern production and operations functions, and how do they contribute to the overall success of an organization in today's business landscape? 10
2. Define production and operations management. Discuss the nature of production. Illustrate the concept of a typical production process with the help of a diagram. 4+4+2=10
3. What is a process? Briefly define Job-Shop production technique. Indicate and elucidate the various steps associated to process design. 2+2+6=10
4. Let us assume that a new medical facility, Health-care, is to be located by the organization where you're presently working. The location factors, factor rating and scores for two potential sites are shown in the following table. 10

S/n	Location Factor	Weighted Factor Rating	Rating (1-5)	
			Location 1	Location 2
1	Facility utilization	12	4	3
2	Permission from authority	20	3	5
3	Availability of Skilled	12	2	4
4	Proximity to city	18	2	5
5	Total patient per month	10	3	1
6	Average time per emergency	7	3	2
7	Land and construction costs	15	4	5
8	Approach Road	6	4	4

A team of experts rated the Locations from 1-5 on the basis of their desirability. Which is the best location based on factor rating method? Suggest.

5. The following table depicts a balanced transportation problem. Solve the problem using Northwest Corner Method to determine an optimal feasible solution. 10

		Destination				Supply
		D1	D2	D3	D4	
Source	O1	4	5	9	5	150
	O2	2	5	5	3	90
	O3	7	8	4	6	200
	O4	6	8	6	4	60
Demand		120	80	170	130	500

6. Write Short notes on : (*any two*) 5×2=10
- a) Steps of Lean Process
 - b) Just-in-Time and its Characteristics
 - c) Value Stream Mapping
 - d) Principles of Layout
 - e) Process Flow Diagram
7. Elaborate the key factors determining production planning and control. Substantiate your answer with suitable example. 10
8. *"The aim of inventory management & the principal goal involves having to balance the conflicting economics of not wanting to hold too much stock."* (Mpwanya, 2007, Abdulrasheed, et.al, 2011). Take cues from the statement and Discuss the importance of inventory management. 10

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