## PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## PGDBM DEGREE EXAMINATION MAY 2024

(First Semester)

# Branch - PG DIPLOMA IN BUSINESS MANAGEMENT OPERATIONS MANAGEMENT SYSTEMS

Time: Three Hours

Maximum: 75 Marks

## SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EOUAL marks  $(10 \times 1 = 10)$ 

Module	Question	ALL questions carry EQUAL marks $(10 \times 1 = 10)$ Question	K	СО
No.	No.		Level	CU
1	1	The process of converting raw materials into finished products is known as:  a) Supply chain management b) Product development c) Manufacturing d) Procurement	K1	1
	2	Which type of production layout arranges workstations and equipment in a U-shape to allow for greater flexibility and teamwork?  a) Product layout b) Process layout c) Cellular layout d) Fixed-position layout	K2	1
2	3	Which of the following best defines productivity in an organizational context?  Output divided by input  a) The ratio of output to input in a given time period  b) The total revenue generated by the organization  c) The number of employees in the organization  d) The profitability of the organization	K1	2
	4	What is the primary goal of value engineering?  a) To increase costs while maintaining value b) To reduce costs while maintaining or improving value c) To decrease value while reducing costs d) To improve value without considering costs	K2	2
3	5	Which of the following is a key output of MRP-I?  a) Master Production Schedule (MPS)  b) Bill of Materials (BOM)  c) Work-in-Progress (WIP) report  d) Sales forecast	K1	3
	6	Which module of an ERP system typically deals with procurement, vendor management, and supply chain activities?  a) Human Resource Management (HRM)  b) Sales and Distribution (SD)  c) Materials Management (MM)  d) Financial Accounting (FI)	K2	3
4	7	What is a core principle of Kanban?  a) Optimizing resource allocation b) Minimizing lead time c) Reducing customer engagement d) Increasing batch sizes	K1	4
	8	What does the "Seiri" step in the 5S methodology focus on?  a) Sorting and organizing items based on their necessity  b) Setting standards and guidelines for workplace cleanliness  c) Shining and inspecting the workplace regularly  d) Standardizing procedures and practices	K2	4

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	9	Which generation of industry emphasizes the personalization of products for individual customers?  a) Industry 3.0 b) Industry 4.0 c) Industry 2.0 d) Industry 5.0	K1	5
5	10	<ul> <li>Which statement is true about Computer-Aided Design (CAD)?</li> <li>a) CAD is only used for 2D design</li> <li>b) CAD cannot be integrated with other software</li> <li>c) CAD improves collaboration and communication in the design process</li> <li>d) CAD can only be accessed on specialized devices</li> </ul>	K2	5

# SECTION - B (35 Marks) Answer ALL questions questions carry EQUAL Marks

Module No.	Question No.	Question	K Level	СО
1	11.a.	What are the factors affecting layout. List down the types of layout.	K2	
		(OR)		1
	11.b.	Compare Goods vs Services.		
2	12.a.	Identify various stages involved in developing a product.	К3	
		(OR)		2
	12.b.	Write down the methods to improve productivity?		
	13.a.	Infer the factors affecting Capacity Planning.	K4	3
3		(OR)		
	13.b.	Compare MRP and ERP.		
	14.a.	Illustrate the elements and benefits of JIT with real world example.	K4	4 -
4		(OR)		
	14.b.	Explain the importance of kaizen model in manufacturing industry.		
5	15.a.	Provide an example of production using FMS.  What are three production situations in which FMS technology can be applied?	К3	5
	Table 1	(OR)		
	15.b.	Choose any one of machine manufacturing company, where CAD is extensively used. Identify the strength of use it.		

#### SECTION -C (30 Marks)

Answer ANY THREE questions

 $(3 \times 10 = 30)$ ALL questions carry EQUAL Marks

Module No.	Question No.	Question	K Level	СО
1	16	List the scope and objectives of operations management. Explain.	K2	1
2	17	Identify the various aspects of product design, and explain its approaches in detail.	K3	2
3	18	Classify production planning and control in detail.	K4	3
4	19	Why do manufacturing industries need "six sigma"? Criticize.	K5	4
5	20	Explain in brief about role of automation in manufacturing industry. State its importance.	K3	5

END Z-Z-Z