

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION DECEMBER 2024
(Third Semester)

Branch – **COMMERCE (COST AND MANAGEMENT ACCOUNTING)**

OPERATIONS MANAGEMENT

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which is applicable to operation management? a. Mostly to the service sector b. Mostly to the Manufacturing sector c. Manufacturing & Service sector d. Services exclusively	K1	CO1
	2	Select a strategy which aims to produce the maximum amount of goods at the lowest possible price. a. Production orientation b. Selling orientation c. Societal marketing d. Cost orientation	K2	CO2
2	3	Choose the forecasting time horizon that would be typically be easiest to predict range. a. Short range b. Medium range c. Long range d. Intermediate range	K1	CO2
	4	Which of the following is a type of plant layout in which machines and equipment are arranged according to their function? a. Cellular layout b. Process layout c. Fixed position layout d. Combined layout	K2	CO1
3	5	Which amount of information control involves? a. Minimum b. Sufficient c. Maximum d. Insufficient	K1	CO3
	6	Which is starting point of Production cycle? a. Product design b. Production Planning c. Routing d. Market research	K2	CO3
4	7	Relate transportation and assignment problems are members of a category of LP problems. a. Shipping problems b. Logistics problems c. Network flow problems d. Generalized flow problems	K1	CO4
	8	Which objective is regulate and control the various operations of production processes for orderly flow of material? a. Production control b. Production audit b. Production planning d. Production execution	K2	CO4
5	9	Which of the following are the objectives of a good maintenance system? a. Minimisation of wear and tear of machines b. Ensuring maximum plant availability c. Both (A) and (B) d. Ensure weightage of product	K1	CO5
	10	Select the worker involvement, as a recent trend in production management. a. SCM b. Just-in-Time c. Quality Circle d. MRP	K2	CO5

SECTION - B (35 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Describe the features of production system.	K4	CO1

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	(OR)																																							
	11.b.	State the characteristics of modern operation function of production.	K4	CO1																																				
2	12.a.	Explain the factors affecting determination of plant capacity.	K6	CO4																																				
	(OR)																																							
	12.b.	Discuss the objectives of planning.																																						
3	13.a.	Analyse the steps in design process.	K4	CO3																																				
	(OR)																																							
	13.b.	Explain the various phases of PLC.																																						
4	14.a.	Explain Vogel's approximation method by obtaining initial feasible solution of the following transportation problem.	K4	CO4																																				
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14.b.	Describe the stages of product planning control.																																							
5	15.a.	Discuss the factors affecting industrial productivity.	K6	CO2																																				
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	15.b.	Choose the principles of ISO and Benefits.																																						

SECTION -C (30 Marks)Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain in detail about product strategies in production management.	K5	CO4
2	17	Elucidate in details about measurement of capacity planning.	K6	CO5
3	18	Describe the procedure of designing process.	K6	CO3
4	19	A dietician wishes to mix two types of foods in such a way that vitamin contents of the mixture contain atleast 8 units of vitamin A and 10units of vitamin C. Food 'I' contains 2 units/kg of vitamin A and 1 unit/kg of vitamin C. Food 'II' contains 1 unit/kg of vitamin A and 2 units/kg of vitamin C. It costs Rs. 50 per kg to purchase Food 'I' and Rs. 70 per kg to purchase Food 'II'. Formulate this problem as a linear programming problem to minimise the cost of such a mixture.	K4	CO2
5	20	Narrate the tools of total quality management.	K3	CO5

Z-Z-Z

END