

**PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)**

**BCom DEGREE EXAMINATION DECEMBER 2025  
(Third Semester)**

Branch – **COMMERCE (COST & 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)

Question No.	Question	K Level	CO
1	Which is a key objective of Operations Management? a) Profit maximization b) Customer satisfaction through quality products c) Market segmentation d) Workforce downsizing	K1	CO1
2	Which of the following is concerned with Production Management? a) Manufacturing sector only b) Service sector only c) Both manufacturing and service sectors d) None of these	K2	CO1
3	Which is NOT a function of MRP? a) Inventory control b) Scheduling production c) Forecasting market demand d) Planning material purchases	K1	CO2
4	Identify the layout where machines are grouped by function a) Product layout                      b) Process layout c) Fixed-position layout              d) Cellular layout	K2	CO2
5	Which of the following is also called as Life-cycle engineering? a) green design                      b) expensive design c) easy design                      d) none of the mentioned	K1	CO3
6	In which stage of the Product Life Cycle does sales reach the peak? a) Introduction                      b) Growth c) Maturity                      d) Decline	K2	CO3
7	Which of the following is included in method study technique? a) Setting time standards b) Improving production layout c) Analyzing and improving efficiency of existing methods d) Evaluating job performance	K1	CO4
8	Which type of production system is characterized by high volume and low variety? a) Project production              b) Job production c) Mass production              d) Batch production	K2	CO4
9	What is the formula for calculating the productivity index? a) Output – Input                      b) Input / Output c) Output / Input                      d) Output + Input	K1	CO5
10	ABC analysis is a spare parts management technique that categorizes items based on their: a) Physical size                      b) Annual usage value c) Supplier location                      d) Shelf life	K2	CO5

Cont...

**SECTION - B (35 Marks)**

Answer ALL questions

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

Question No.	Question	K Level	CO
11.a.	State any five objectives of Operations Management.	K1	CO1
	(OR)		
11.b.	Differentiate between Production and Operations Management		
12.a.	Discuss the factors affecting the determination of plant capacity.	K2	CO2
	(OR)		
12.b.	Describe the different types of facility layouts with examples.		
13.a.	Apply process design principles to a small-scale manufacturing unit and describe the steps.	K3	CO3
	(OR)		
13.b.	Discuss the types of process strategies.		
14.a.	Explain the main objectives of production planning and control in a manufacturing unit	K3	CO4
	(OR)		
14.b.	Differentiate between the types of production		
15.a.	Explain importance of productivity in industrial operations.	K3	CO5
	(OR)		
15.b.	Explain the basic tools of TQM with examples.		

**SECTION - C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Question No.	Question	K Level	CO
16	Explain the recent trends in operations management.	K3	CO1
17	Describe Enterprise Resource Planning (ERP) and its role.	K4	CO2
18	Explain the various stages in product life cycle.	K3	CO3
19	Explain time study, work study, and method study.	K3	CO4
20	Analyze factors to consider for replacement of old machines.	K4	CO5

Z-Z-Z END