

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

PGDBM DEGREE EXAMINATION DECEMBER 2025
(First Semester)

Branch – DIPLOMA IN BUSINESS MANAGEMENT

BUSINESS OPERATIONS MANAGEMENT

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

Cont.

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

(5 × 7 = 35)

Question No.	Question	K Level	CO
11.a.	Define Operations Management and explain its nature and scope in brief. (OR)	K2	CO1
11.b.	Explain the factors influencing location selection for a manufacturing unit.		
12.a.	What is product design? Briefly describe the approaches to product design. (OR)	K3	CO2
12.b.	Differentiate between work study, method study, and motion study.		
13.a.	Summarize the functions of Production Planning and Control. (OR)	K3	CO3
13.b.	Write short notes on: MRP-I and MRP-II.		
14.a.	Interpret Deming's Quality Principles. How can they be implemented? (OR)	K4	CO4
14.b.	Explain briefly the role of IoT in Operations Management.		
15.a.	Highlight the Bathtub Curve in relation to equipment life cycle. (OR)	K6	CO5
15.b.	Differentiate between PERT and CPM.		

SECTION - C (30 Marks)
Answer ANY THREE questions
ALL questions carry EQUAL Marks

(3 × 10 = 30)

Question No.	Question	K Level	CO
16	Describe the types of plant layouts and explain their suitability for different industries.	K2	CO1
17	Elucidate the Value Engineering. How does it help in reducing cost and improving product quality?	K3	CO2
18	Explain the steps and strategies of aggregate planning with suitable examples.	K5	CO3
19	Discuss the steps in ISO registration. How does certification help companies?	K5	CO4
20	Enumerate the role of Human-Machine Collaboration in Industry 4.0.	K3	CO5