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Printed Page:-2 **Subject Code:- BBBA0305**

Roll. No:

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
(An Autonomous Institute Affiliated to AKTU, Lucknow)
BBA
SEM: III - THEORY EXAMINATION (2025 - 2026)
Subject: Production & Operations Management

Time: 2.5 Hours **Max. Marks: 60**

General Instructions:

IMP: *Verify that you have received the question paper with the correct course, code, branch etc.*

1. This Question paper comprises of three Sections -A, B, & C. It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.

2. Maximum marks for each question are indicated on right -hand side of each question.

3. Illustrate your answers with neat sketches wherever necessary.

4. Assume suitable data if necessary.

5. Preferably, write the answers in sequential order.

6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION-A 15

1. Attempt all parts:-

1-a. The primary objective of production management is to: (CO1,K1) 1

(a) Minimize workforce
(b) Efficiently produce goods and services
(c) Maximize inventory
(d) Reduce supplier numbers

1-b. Identify the manufacturing system type characterised by large volumes of standardised output and uninterrupted flow. (CO2,K2) 1

(a) Job shop system
(b) Batch system
(c) Project system
(d) Continuous production system

1-c. Select the factor related to proximity to customers under plant location. (K2) 1

(a) Employee training
(b) Market accessibility
(c) Energy consumption
(d) Transportation design

1-d. Recognize the term EOQ in inventory management. (CO4,K1) 1

(a) Economic Order Quantity
(b) Estimated Output Quota
(c) Excess Order Quantity
(d) External Order Queue

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1-e.	Select the key principle of Total Quality Management (TQM). (CO5,K2)	1
	(a) Continuous improvement	
	(b) Random inspection	
	(c) Short-term results	
	(d) Profit maximization	

2. Attempt all parts:-

2.a.	Define the concept of production management (CO1,K1)	2
2.b.	Describe Manufacturing System. (CO2,K1)	2
2.c.	Describe Plant Layout. (CO3, K2)	2
2.d.	Define materials management in organizational context. (CO4,K1)	2
2.e.	Describe Quality Control . (CO5,K2)	2

SECTION-B 15

3. Answer any three of the following:-

3-a.	Discuss the responsibilities of a production manager . (CO1,K4)	5
3-b.	Describe the elements of product design. (CO2,K2)	5
3.c.	Describe the factors affecting plant location in detail. (CO3,K2)	5
3.d.	Write a note on Materials Management and Inventory Control (CO4,K3)	5
3.e.	Explain " Quality Assurance" (CO5,K2)	5

SECTION-C 30

4. Answer any one of the following:-

4-a.	Analyze the objectives of Production Planning and Control (PPC) in detail. (CO1,K4)	6
4-b.	Explain the evolution of production management as a strategic area of business operations. (CO1,K2)	6

5. Answer any one of the following:-

5-a.	Explain the elements of product design in detail. (CO2,K4)	6
5-b.	Explain the 7 stages of product development. (CO2,K5)	6

6. Answer any one of the following:-

6-a.	Demonstrate the factors affecting Plant Layout in detail. (CO3,K4)	6
6-b.	Compare fixed, product, process, and cellular layouts in terms of efficiency and flexibility. (CO3,K4)	6

7. Answer any one of the following:-

7-a.	Evaluate ABC classification impact on high-value items. (CO4,K5)	6
7-b.	Examine EOQ adjustment with multiple suppliers. (CO4,K5)	6

8. Answer any one of the following:-

8-a.	Explain the importance of Total Quality Management (TQM). (CO5,K2)	6
8-b.	Describe the role of Six Sigma in improving quality and reducing defects. (CO5,K3)	6