



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA**  
**FACULTY OF MANAGEMENT SCIENCES**  
**2025\_2 EXAMINATIONS**

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**COURSE CODE: MBA801**

**CREDIT UNIT: 3**

**COURSE TITLE: OPERATIONS MANAGEMENT**

**TIME ALLOWED: 3 Hours**

**INSTRUCTIONS: 1. Attempt question Number one (1) and any other three (3).**

**2. Question number 1 is compulsory and carries 25 marks, while the other questions carry 15 marks each**

**3. Present all your points in coherent and orderly manner**

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**1a.** Suppose Tijani and Osot. Ltd assembled television sets. It buys 3,600 black and white picture tubes annually at a cost of ₦65 each. Ordering costs amount to ₦31, while annual carrying costs represent 20% of the purchase price. Compute the optimal quantity and the total annual cost of ordering and carrying the inventory. **10Marks**

**b.** Describe five fundamental processes in the acquisition process. **10Marks**

**c.** Identify five (5) key requirements for effective inventory management. **5Marks**

**2a.** Discuss five essential elements of personnel and organizational Just-In-Time (JIT) systems. **10Marks**

**b.** Describe the two fundamental approaches to job design. **2½Marks each = 5Marks**

**3a.** Explain five characteristics and functions of linear programming model. **10Marks**

**b.** Discuss the benefits of Material Requirements Planning (MRP). **5Marks**

**4a.** Examine five factors that should be considered before making site-selection decisions.

**10Marks**

**b.** Define the term "production/operations management. (POM). **5Marks**

**5a.** Discuss three types of decisions that distribution managers must face. **9Marks**

**b.** Briefly discuss three key importance of forecasting in Production and Operations Management (POM). **6Marks**