**COURSE CODE:**   BUS 801                                       **Credit Units: 2**
**COURSE TITLE:**   Production and Operations Management
**TIME ALLOWED: 2 Hours**

**INSTRUCTIONS:**   **1. Attempt question number one (1) and any other (2) questions.**
                   **2. Question number 1 carries 30 marks, while the other two (2)**
                        **questions carry 20 marks each.**
                   **3. Present all your points in coherent and orderly manner.**

1a. Discuss four basic demand options. (**10marks)**

 b. Explain the characteristics and assumption of linear programming model. (**10marks)**

 c. Discuss briefly four basic steps of graphic analysis. (**10marks)**

2a. Discuss the benefits and requirements of Material requirements planning. (**10marks)**

 b. Compare and contrast two main classes of forecasting methods. (**10marks)**

3a. Lists ten steps in conducting work methods. (**10marks)**

 b. Suppose Tijani and Osot. Ltd assembled television sets. It purchases 3,600 black and white picture tubes a year at #65 each. Ordering costs are #31, and annual carrying costs are 20 percentage of the purchase price. Compute the optimal quantity and the total annual cost of ordering and carrying the inventory. (**10marks)**

4a. Describe the two basic approaches to job design.  (**10marks)**

 b. Discuss types and effects of Supplier Relations. ( **10marks)**

5a. Define the nature of supply-chain management for both manufacturers and service providers. **(10marks)**

b. List three corporate strategy set by management via strategic alternatives**. (10marks)**