



**TECHNICAL UNIVERSITY OF MOMBASA**  
**SCHOOL OF BUSINESS**  
**DEPARTMENT OF MANAGEMENT SCIENCE**  
**UNIVERSITY EXAMINATION FOR**  
**DIPLOMA IN PROCUREMENT AND MATERIAL MANAGEMENT**  
  
**(YEAR 2 SEMESTER 2)**

**BMG 2205: MATERIAL PROVISIONING AND LOGISTICS**

**INSTRUCTIONS**

You should have the following for this examination

-Answer Booklet

This paper consist of FIVE questions.

Attempt question One (Compulsory) and any other two questions

Maximum marks for each part of a question are shown

This paper consist of two printed pages

Do Not Write on the Question paper

### **Question one (Compulsory)**

- (a) Sales and operation and planning is a proven business improvement tool, and implementation is one of the strengths of a successful supply chain practice. What are the determine factors for the success of sales and operation planning (10 marks)
- (b) Scheduling provides critical information to owners, architect/engineers, contractors, subcontractors, suppliers, and the public. Project management teams may use schedules offensively in the what ways, name and explain (10 Marks)
- (c) Manufacturing planning and control entails the acquisition and allocation of limited resources to production activities so as to satisfy customer demand over a specified time horizon; mention and explain function of manufacturing, planning and control. (10 marks)

### **Question Two**

- (a) Control of inventory, which typically represents 45% to 90% of all expenses for business, is needed to ensure that the business has the right goods on hand to avoid stock-outs, to prevent shrinkage (spoilage/theft), and to provide proper accounting. What are these approaches which can be used by the company to control the stock (10 Marks)
- (b) Logistics is the management flow of resources not only goods between the point of origin and the point of consumption in order to meet the requirements of the customer or corporations. Highlight importance of logistics. (10 marks)

### **Question Three**

- (d) Planning the use of your manufacturing capacity to turn out the highest-quality products while maximizing profit is a key to the success of your business. Explain the determinants of effective capacity (10 Marks)
- (e) Sales and operation is the process where executive level of management regularly meets and review projections for demand, supply and the resulting financial impact. Explain the benefits of sales and operations planning. (10 marks)

### **Question Four**

- (a) Periodic review approach or top up approach it's one of the stock control approaches explain its advantage and disadvantage to this approach (10 Marks)
- (b) Master scheduling in any processing is very important. Explain the general principles which govern the master scheduling (10 Marks)

### **Question Five**

a) The role of capacity planning in manufacturing planning and control system is planning and control of material and capacities. Explain the hierarchy of capacity planning decision in any given organization. (10 marks)

(a) ERP are designed around a number of modules each of which can be stand alone or combined with others explain the meaning of ERP as it is used in manufacturing planning and control , what are its applications, explain the disadvantages (10 Marks)

