



MACHAKOS UNIVERSITY

University Examinations for 2016/2017 Academic Year

SCHOOL OF BUSINESS AND ECONOMICS

DEPARMENT OF BUSINESS ADMINISTRATION

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR
BACHELOR OF COMMERCE (PROCUREMENT & SUPPLY CHAIN MANAGEMENT
OPTION)**

BMS 317: PRINCIPLES OF SUPPLY CHAIN MANAGEMENT

DATE: 2/8/2017

TIME: 8:30 – 10:30 AM

INSTRUCTIONS

Answer question ONE and any other TWO questions

1.
 - a) Supply Chain Management involves an integration of various processes. State the ways a supply chain officer may use to enhance the integrations. (5 marks)
 - b) The use of information communication technology in supply chain has become increasingly important. Highlight the challenges of supply chain information excellence. (5 marks)
 - c) Explain the measures that can be undertaken by a supply chain officer to ensure security of inventory in an organization. (5 marks)
 - d) Distinguish between supply chain enablers and supply chain participants. (5 marks)
 - e) Highlight the causes of a bull whip effect in supply chain management. (5 marks)
 - f) Highlight the factors that should be considered when choosing the metrics to apply in supply chain management. (5 marks)
2.
 - a) The SCOR model contains hundreds of performance metrics that are applied selectively depending on the type of the organization and the supply chain operation

- involved. Assuming that you are working for a distribution organization, explain some examples of metrics that you can use. (10 marks)
- b) A supply chain is a network that is used by an organizations through upstream and downstream linkages in the different processes and activities that produce value. What are the key characteristics of a supply chain? (10 marks)
3. a) Bullwhip effect increases the costs for a supply chain. Justify this statement. (10 marks)
- b) Explain the ways in which a supply chain can increase the competitiveness of an organization (10 marks)
4. a) Supply chain coordination is a pre-requisite to dealing with a bull whip effect in supply chains. Discuss. (10 marks)
- b) Describe the procedure that should be followed when using SCOR model in the management of supply chain in an organization. (10 marks)
5. a) Supply chain metrics can be customer, internal business, financial, or innovation and learning focused. Explain five supply chain metrics that are customer focused. (10 marks)
- b) Explain the strategies a supply chain manager can use to deal with supply chain vulnerability in an organization. (10 marks)