

FACULTY OF MANAGEMENT JUNE EXAMINATION 2014

DEPARTMENT: TRANSPORT AND SUPPLY CHAIN MANAGEMENT

MODULE : LOGISTICS DECISION SUPPORT SYSTEMS

CODE : LMA8X03/LBE03X7

<u>DATE</u> : 02 JUNE 2014

<u>DURATION</u> : 3 HOURS

TIME : 12:30 – 15:30

TOTAL MARKS : 100

EXAMINER(S) : MS. A D'AMATO

EXTERNAL MODERATOR(S): MR. WESLEY NIEMANN

NUMBER OF PAGES : 3

INSTRUCTIONS TO CANDIDATES:

- Question papers must be handed in
- This is a closed book assessment
- · Read the questions carefully and answer only what is asked
- Number your answers clearly
- Write neatly and legibly
- Structure your answers by using appropriate headings and subheadings
- The general University of Johannesburg policies, procedures and rules pertaining to written assessments apply to this assessment.

QUESTION 1 (41.5 Min: 30 Marks)

The Cunningham Weaving Company has been experiencing low profitability in recent years. As a result the board of directors has asked for a logistics audit to be performed.

This audit MUST be completed using the STRATEGIC PROFIT MODEL TEMPLATE PROVIDED for all sections required. The template must be completed in full where possible.

Cunningham Weaving Company's financial statements are supplied below and you are required to use the financial data provided for 'The Cunningham Weaving Company' to provide the following:

a) The ROA, Financial leverage, and RONW for Cunningham Weaving Co. (15)

b) Indicate by how much Tranport expenses must decrease in order to achieve a ROA of 6% (15)

Balance Sheet at 31 March 2011				
Share capital	100	Fixed assets	140	
Retained earnings	114	Accumulated depreciation	20	
Owners' equity	214	Total fixed assets	120	
Long term debt	36	Current assets	194	
		Stock	106	
		Trade debtors	46	
		Cash	42	
		Total assets - gross	314	
		Current liabilities	64	
		Trade creditors	39	
		Bank overdraft	25	
Total	<u>250</u>	Total	<u>250</u>	

Income Statement for the year ended 31 March 2011		
Net sales	530	
Cost of goods sold	425	
Gross profit	105	
Operating expenses:		
Variable expenses	40	

Fixed expenses	30
Operating profit	35
Interest paid	9
Net income before tax	26
Tax (35%)	9
Net income after tax	<u>17</u>

QUESTION 2 (36 Min: 20 Marks)

Supply Chain Information Systems (SCIS) typically fall into four categories. Name and briefly describe the four categories into which SCIS's can be classified. (4) Also list at least four types of systems within each category and briefly describe their functions. (16)

QUESTION 3 (36 Min: 20 Marks)

Six technology-assisted drivers of supply chain excellence can assist organisations to generate adaptive capabilities to synchronise supply chains in order to improve competitive advantage. List these drivers of supply chain excellence and describe how each will contribute to a more efficient supply chain. Please elaborate with examples.

QUESTION 4 (27 Min: 15 Marks)

The integration of E-Commerce into Enterprise Resource Planning solutions may yield many benefits. The first area within business to gain huge benefit was the functional area of procurement management. Discuss E-Procurement, with specific focus on the benefits that E-Procurement has brought to the entire supply chain.

QUESTION 5 (21 Min: 15 Marks)

Discuss what is meant by the term 'Collaborative Planning, Forecasting and Replenishment' (CPFR) and how CPFR may influence customer service levels.

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