



FACULTY/COLLEGE	College of Business and Economics
SCHOOL	Johannesburg Business School
DEPARTMENT	Transport and Supply Chain Management
CAMPUS(ES)	APK
MODULE NAME	Logistics Decision Support Systems
MODULE CODE	LMA8X03
SEMESTER	First
ASSESSMENT OPPORTUNITY, MONTH AND YEAR	Final Assessment Opportunity May/June 2019

ASSESSMENT DATE	31 May 2019	SESSION	08:30 – 11:30
ASSESSOR(S)	Mrs AA d' Amato Groenewald		
MODERATOR(S)	Mr W Niemann		
DURATION	3 hours (180 min)	TOTAL MARKS	180

NUMBER OF PAGES OF QUESTION PAPER (Including cover page)	5
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INFORMATION/INSTRUCTIONS:

- This is a closed-book assessment.
 - There are 6 questions.
 - Answer all questions.
 - Read the questions carefully and answer only what is required.
 - Number your answers clearly and correctly as per the question paper.
 - Write neatly and legibly on both sides of the paper in the answer book, starting on the first page.
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You have been appointed the Supply Chain Director of a leading logistics organisation operating predominantly in South Africa – please answer all the following questions in this capacity.

QUESTION 1 (20 MARKS)

The rise of connected devices that make up the Internet of Things (IoT) might just make the smartphone revolution seem trivial in comparison. Review Big Data @ Work, limitless data and possibilities.

QUESTION 2 (40 MARKS)

Businesses today generate extraordinary amounts of data and systems have become highly complex. Information Technology must exchange more and more information. Discuss evolving smart grid systems and the integration challenges.

QUESTION 3 (20 MARKS)

Evaluate the options available to your organisation relating to e-Commerce fulfilment strategies.

QUESTION 4 (40 MARKS)

Evaluate the various Supply Chain Information Systems (SCIS) categories available within your supply chain and match the category to the system by use of examples.

QUESTION 5 (20 MARKS)

Discuss information technology capabilities of excellence in your capacity as Supply Chain Director.

QUESTION 6 (40 MARKS)

Complete and evaluate the Strategic Profit Model for ABC Company on the two templates provided.

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

- The ROA and RONW for ABC Company. Financial Leverage equates to 1,47 (15).
- Indicate by how much Total Expenses must increase in order to achieve a ROA of 20% (15).
- Explain in detail the meaning of ROA in a) and b) for ABC Company (10).

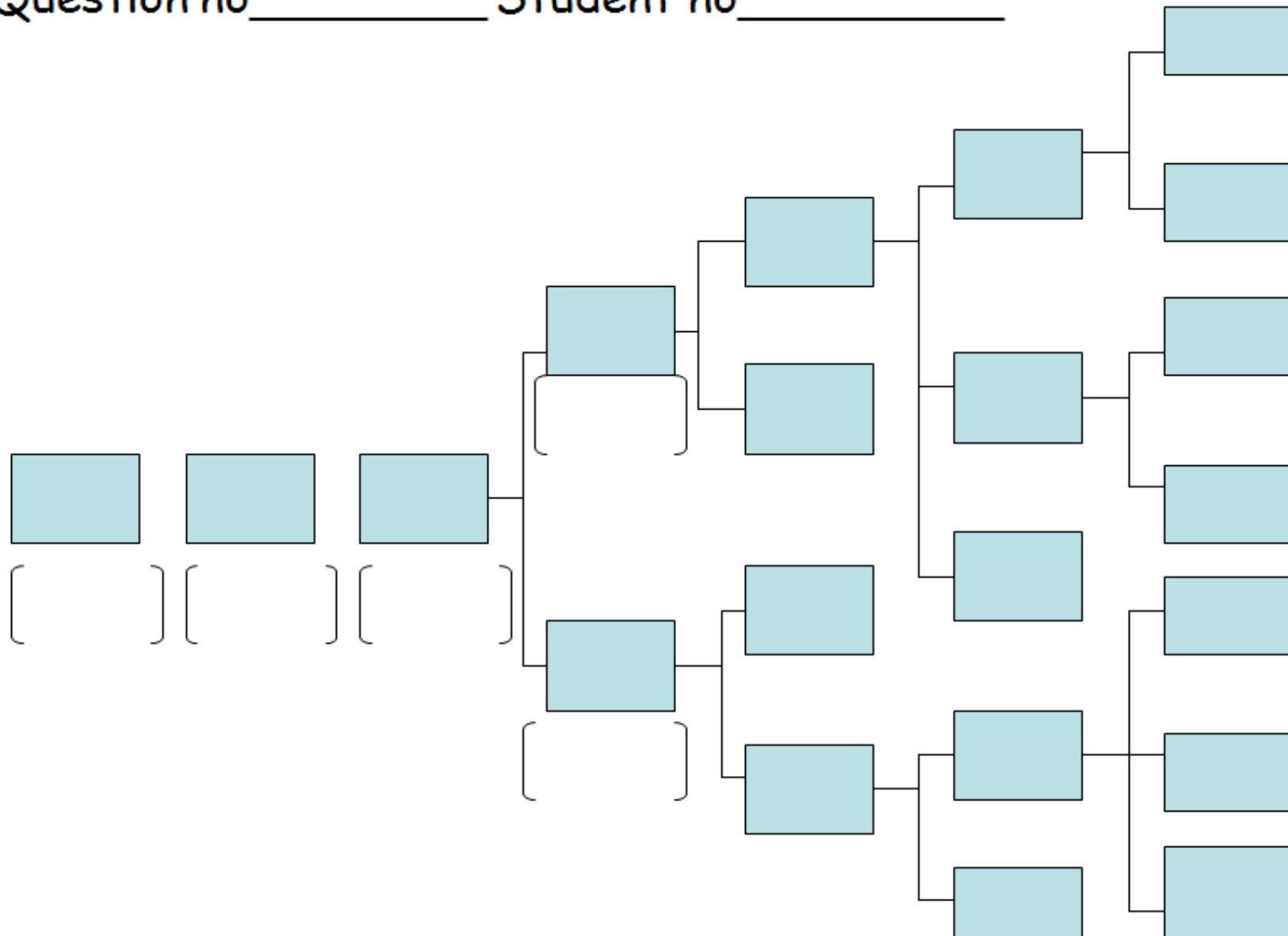
Balance Sheet at 31 March 2011				
Share capital	100		Fixed assets	140
Retained earnings	<u>114</u>		Accumulated depreciation	<u>20</u>
Owners' equity	214		Total fixed assets	120
Long term debt	36		Current assets	194
			Stock	106

			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	600
Cost of goods sold	<u>425</u>
Gross profit	175
Operating expenses:	
Variable expenses	40
Fixed expenses	<u>30</u>
Operating profit	105
Interest paid	<u>9</u>
Net income before tax	96
Tax (35%)	<u>9</u>
Net income after tax	<u>87</u>

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