


**TRL3708  
TRL308C**

May/June 2013

**LOGISTICS SYSTEMS**

Duration 2 Hours

70 Marks

**EXAMINERS**  
 FIRST  
 SECOND  
 EXTERNAL

 MRS NJ MATSOMA  
 PROF A BRITS  
 PROF JH DU PLESSIS

Use of a non-programmable pocket calculator is permissible

Closed book examination

This examination question paper remains the property of the University of South Africa and may not be removed from the examination venue

This exam question paper consists of 13 pages, including 2 sheets for rough work.

**INSTRUCTIONS:**

1. WRITE YOUR ANSWERS ON THIS EXAMINATION SCRIPT AND HAND IT TO THE INVIGILATOR WHEN YOU HAVE FINISHED.
2. ON THE FRONT COVER OF THIS EXAMINATION SCRIPT, DRAW A CIRCLE AROUND THE QUESTION NUMBER OF EACH OF THE LONG QUESTIONS THAT YOU ANSWER.
3. READ THROUGH ALL OF THE QUESTIONS CAREFULLY.

**THIS EXAMINATION PAPER CONSISTS OF TWO SECTIONS [19 PAGES]:**
**SECTION A: (COMPULSORY) ANSWER ALL THE SHORT QUESTIONS (20 MARKS)**
**SECTION B: ANSWER ANY TWO (2) OF THE THREE (3) LONG QUESTIONS (50 MARKS)**

**PLEASE NOTE: ONLY THE FIRST TWO (2) QUESTIONS THAT YOU ANSWER WILL BE MARKED. YOU WILL NOT BENEFIT IN ANY WAY IF YOU ANSWER ALL THREE (3) LONG QUESTIONS.**

**TOTAL:****70 MARKS**

**SECTION A**  
**ANSWER ALL THE QUESTIONS IN THIS SECTION.**  
**SUBTOTAL: 20 MARKS**

**QUESTION 1**

**1.1** Name three features of the Supply Chain Information System **(3)**

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**1.2** Name key logistics system design questions **(2)**

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**1.3** Briefly explain the following terms used in the warehouse base stock, safety stock, stock in transit **(3)**

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**1.4** Distinguish between the demand and the supply facing warehouse **(2)**

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Explain the following terms used in logistics operations

**(2)**

**1.5** (i) anticipatory business model

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(ii) responsive business model

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**1.6** Briefly explain the term simultaneous resource consideration used in logistics planning **(2)**

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**1.7 Differentiate between the two logistics communication technologies, namely Value Added Networks (VANs) and European Article Numbering (EAN) (4)**

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**1.8 Briefly explain one of the four major components of Advance Planning system (APS)**

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**(2)**

**[20]**



















