higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE (VOCATIONAL)

TRANSPORT ECONOMICS
NQF LEVEL 4

(11020304)

1 March 2018 (Y-Paper)
13:00–16:00

This question paper consists of 6 pages.

NCV

Copyright reserved

TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
2. Read ALL the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Use a black or blue pen.
5. Leave THREE lines open after each question.
6. Start each section on a NEW page.
7. Write neatly and legibly.

NCV

Copyright reserved

SECTION A

QUESTION 1

Indicate whether the following statements are TRUE or FALSE. Choose the answer and write only 'true' or 'false' next to the question number (1.1–1.5) in the ANSWER BOOK.

1.1 Supply is the amount of goods and services that suppliers plan to make available to a specific market over a specific period.

1.2 Medium-range aircraft are planes that meet consumer demands for travel within a continent.

1.3 One of the factors that influence modal characteristics is unexpected performance.

1.4 An infrastructure bottleneck is influenced by certain procedures and tasks in the supply chain.

1.5 One of the aims and objectives that traffic management tries to achieve is to keep the traffic moving.

(5 × 1) **[5]**

QUESTION 2

Define the following concepts:

2.1 Market

2.2 Transport costs

2.3 Full-cost pricing

2.4 Cost function

2.5 Monopoly

(5 × 2) **[10]**

NCM

QUESTION 3

Choose a term from COLUMN B that matches a description in COLUMN A. Write only the letter (A–F) next to the question number (3.1–3.5) in the ANSWER BOOK.

COLUMN A		COLUMN B	
3.1	Work, energy and money required to sometimes move from one place to another	A	intermodal supply
3.2	How freight dimensions fit into the transport vehicle	B	social costs
3.3	Air and water transport systems rely on the capacity of terminals which offer this	C	demand elasticity
3.4	Total costs to society in providing a transport service	D	export promotion unit
3.5	Responsible for developing and implementing regional export strategies	E	stowability
		F	friction of distance

(5 × 1) **[5]**

TOTAL SECTION A: 20

SECTION B

QUESTION 4

Read the statement below and answer the questions.

Many people in South Africa use trains for their daily transportation. There are factors that affect the nature of their demands. On the other hand, PRASA Rail Operations faces major challenges.

4.1 4.1.1 Explain THREE factors that affect the nature of people's demands. (3 × 2) (6)

4.1.2 Discuss any TWO challenges that PRASA Rail Operations faces. (2 × 2) (4)

4.2 Name and explain ONE type of elasticity according to which demand for goods and services can be classified. (1 + 2) (3)

4.3 List THREE types of carriers and describe each according to its flexibility in their transport service offering. (3 × 3) (9)

Copyright reserved

4.4 Discuss THREE main forms of regulations that public control typically maintains over private enterprises. (3 × 2) (6)

[28]

QUESTION 5

Read the statement below and answer the questions.

Road transport is the most popular mode of transport from a demand-and-service provision perspective.

5.1 Give THREE reasons to support this statement. (3 × 2) (6)

5.2 Name and explain FOUR transport demand patterns that transport service providers cannot influence. (4 × 2) (8)

5.3 Read the statement below and answer the questions.

The quantity demanded increases as the price of transport services decrease. Imagine that transport consumers are buying train tickets to meet their transport demand. The following table shows the price of each train ticket against the number of train tickets demanded.

Price per ticket	Quantity of tickets demanded
18	0
15	20
12	40
9	60
6	80
3	100

Draw a graph and plot the price per ticket and quantity of tickets demanded. (4)

5.4 Describe four primary characteristics of products transported by water. (4 × 2) (8)

5.5 Give TWO examples of products transported by water. (2)

[28]

QUESTION 6

6.1 List FOUR stakeholders involved in traffic management. (4)

6.2 Name and describe any two types of road pricing in traffic management (6)

Copyright reserved

6.3 Read the statement below and answer the questions.

> An integrated transport network involves at least two modes of transportation to carry passengers or freight between their origin and destination. To do this, an intermodal transport chain is used to integrate, or combine, different transport networks. The process of integrating separate transport networks, especially in freight transport services, has resulted in the emergence of several factors.

State THREE factors that allowed countries worldwide to move towards an integrated transport network. (3 × 2) (6)

6.4 Goods that enter South Africa must be declared according to classifications.

List FOUR of these classifications. (4 × 2) (8)

[24]

TOTAL SECTION B: 80
GRAND TOTAL: 100

NCM

Copyright reserved