UNIVERSITY OF SWAZILAND

DEPARTMENT OF ECONOMICS

FINAL EXAMINATION PAPER 2012/13

TITLE OF PAPER: TRANSPORT ECONOMICS

COURSE CODE: ECON 426

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS: 1. ANSWER <u>FOUR</u> QUESTIONS 2. ALL QUESTIONS CARRY <u>EQUAL</u> MARKS, OF 25 EACH.

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QUESTION 1

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(1)	Define the role played by government in privatization.	(4)
(ii)	Discuss three (3) benefits of privatization.	(6)
(iii)	Define the minimum subsidy contract process of transferrion ownership.	ing (3)

(iv) Give three (3) advantages and disadvantages of the minimum subsidy contract. (12)

QUESTION 2

(i) Describe two (2) ways how recurring congestion occur.	(3)			
(ii) Discuss four negative effects of traffic congestion.	(12)			
(iii) Discuss two actions for reducing traffic congestion under Travel				
Demand Management.	(10)			

QUESTION 3

The planning process for projects requires a number of stages to be undertaken. Describe the stages involved. (25)

QUESTION 4

(i) Discuss any four decision making models/processes in transport.

(20)

(ii) Why would you advise a middle income person to follow the rational decision making process? (5)

QUESTION 5

Logico Transport (Pty) Ltd transport bales of sugar to the three Pick 'n Pay stores (Manzini, Matsapha, and Mbabane). The company purchases the sugar from two companies: Mananga Packers and Illovo (Big Bend). The sugar demands for the three stores are: Manzini 400 bales, Matsapha 200 bales; and Mbabane 300 bales.

Contracts have been entered into to provide the following quantities: Mananga Packers 500 bales, and Illovo 400 bales. The distribution costs per unit (in Emalangeni) are as follows:

From	То			
	Manzini	Matsapha	Mbabane	
Mananga Packers	10	20	15	
Illovo	12	15	18	

- a) Develop a network representation of this problem. (10)
- b) Develop a linear programming model that can be used to minimize the total distribution costs; make sure you define the variables in your model. (15)

QUESTION 6

(i)	Discuss three roles that transport can play in the economic		
	development of a country?	(12)	
(ii)	Give two advantages and disadvantages of the cost-only contract		
	of Privatisation.	(8)	
(iii)	Discuss two ways of reducing traffic congestion under the		
	Transport System Management strategy.	(5)	