

TRL3702

May/June 2014

TRANSPORT PLANNING AND INVESTMENT

Duration 2 Hours

70 Marks

EXAMINERS FIRST SECOND EXTERNAL

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Closed book examination

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SECT	ION A		
ANSWER ALL THE QUESTIONS IN THIS SECTION			
QUES	STION 1	٠	
(1)	Once the existing transport system has been simulated by transport models,		
	alternative plans are generated in transport planning. Indicate how you would go	,	ž 1 ž 1 ž 1 ž 1 ž 1 ž 1 ž 1 ž 1 ž 1 ž 1
	about generating these alternatives	, ^ (5)	
		*	
(H)	Briefly explain what is meant by the technical assessment in the application of	يد	* , , , , , , ,
. ,	the suitability theory	(5)	,
	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,		111
(111)	Explain the objectives of the airport master plan		
\ <i>)</i>	Explain the edjectives of the disport master plan	(5)	1,0
(ıv)	What is the purpose of toll systems and what are its disadvantages?	(5)	
(1.4)	what is the purpose of tell systems and what are its disadvantages.	(5)	,
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		TOTAL	
		SECTION A	[20]
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	Question 2 / continues		

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QUESTION 2		The many party and the party of	
Explain the synthesisation phase of the multicriteria (MC) evaluation of transport			
infrastructure. In your answer refer to the methodological foundations and the three types			
of aggregate procedures Briefly give the disadvantages of MC and the reasons for pre-			
multicriteria analysis. Also indicate how this evaluation should be practically applied by			
inter alia referring to the two purposes of multicriteria evaluation		∠6 × [25]	
		4 12 3	
QUESTION 3			
(i) A cost/benefit analysis may be defined as a practical way of evaluating the desirability of a project, "		3 4	
Briefly discuss the different criteria for project evaluation	(40)		
	(10)	-	
(ii) Explain the interaction between a port and its environment by referring to its			
hinterland and the economies that can be realised from its immediate			
surroundings Briefly indicate how you would ensure transport integration in port planning and development	(15)	[25]	
planning and development			
QUESTION 4			
		. "	
Discuss in detail the process you would follow in planning an airport at local, regional and			
provincial level		[25]	
	TOTAL	[50]	
	SECTION B	·	

First Examiner

Mnr JW Barendrecht

Second Examiner

Prof A Brits

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