



FACULTY/COLLEGE	College of Business and Economics
SCHOOL	Johannesburg Business School
DEPARTMENT	Transport and Supply Chain Management
CAMPUS(ES)	APK
MODULE NAME	Infrastructure Studies
MODULE CODE	TRE8X04
SEMESTER	Second
ASSESSMENT OPPORTUNITY, MONTH AND YEAR	Final Summative Assessment Opportunity November 209

ASSESSMENT DATE	November 2019	SESSION	08:30 – 11:30
ASSESSOR(S)	Prof R Luke		
MODERATOR:	Mrs K Visser		
DURATION	3 hours (180 min)	TOTAL MARKS	180

NUMBER OF PAGES OF QUESTION PAPER (Including cover page)	2
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INFORMATION/INSTRUCTIONS:

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- Answer all the questions.
 - Question papers must be handed in.
 - This is a closed book assessment.
 - Read the questions carefully and answer only what is asked.
 - Number your answers clearly.
 - Write neatly and legibly.
 - Structure your answers by using appropriate headings and sub-headings.
 - The general University of Johannesburg policies, procedures and rules pertaining to written assessments apply to this assessment.

QUESTION 1

[30 MARKS]

Megaprojects are critical to fundamentally alter the transport landscape within large urban environments. Consider any major South African transport megaproject. Describe why it is considered to be a megaproject, the risks that were associated with the project, whether the promises made at feasibility stage were achieved in the project and whether, based on this, you would consider the project a success or not. Motivate your answer in full.

QUESTION 2

[30 MARKS]

The Gauteng Department of Roads and Transport intends to expand the Gautrain to Mamelodi, Jabulani and Boksburg respectively. Explain how you would apply the basic Cost-Benefit Analysis calculation to this project. Specify each cost and benefit that you have identified under each component in the calculation.

QUESTION 3

[30 MARKS]

The government has decided to build a fast freight train between Johannesburg and Durban. Provide an overview of the aspects that should be taken into account when considering the financing of the project. Given the nature of the project, propose the mix of government/private sector involvement for the project. Motivate your answer in full.

QUESTION 4

[30 MARKS]

Compare dedicated infrastructure funds, capital grants, concessions and user charging as methods of infrastructure financing. In your discussion you should refer specifically to a comprehensive definition of each method and the advantages and disadvantages of each. Which do you think would be most appropriate for an upgrade of the border post between South Africa and Mozambique? Motivate your answer in full.

QUESTION 5

[30 MARKS]

Compare the socio-economic impacts of the Gautrain, the port of Ngqura and the King Shaka International Airport. You may use a table for this comparison.

QUESTION 6

[30 MARKS]

Critically analyse the current state of transport infrastructure in South Africa.

TOTAL [180 MARKS]