



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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**MAIN EXAMINATION**

**SEPTEMBER –DECEMBER 2021**

**FACULTY OF ARTS AND SOCIAL SCIENCES**

**DEPARTMENT OF ECONOMICS**

**REGULAR PROGRAMME**

**ECN 403: TRANSPORTATION ECONOMICS**

**Date: DECEMBER 2021**

**Duration: 2 Hours**

**INSTRUCTIONS: Answer Question ONE and any TWO Questions**

Q1.

- a). Transportation economics deals with allocation of resources within the transport sector. Determine how this contributes to the demand for transport. **(10marks).**
- b). Describe the numerous ways transportation affects the environment and the parameters used to measure these effects. **(10marks).**
- c). Discuss the role of funding transportation for prosperity sustainability and equity in boosting economic development of developing countries. **(10marks).**

Q2.

- a). Discuss the significance of the major components of transportation system and their relation to the larger socio-economic and physical systems of a country. **(10marks).**
- b). Highlight the major concerns of transportation policies. **(5marks).**
- c). Explain the measures that government can take to ensure sustainable transport system. **(5marks).**

Q3.

a). Cite the major modes of transport in a country and demonstrate how their interconnectivity contributes to efficient transport system. **(10marks).**

b). Determine the critical role of life cycle costing in investment of transport infrastructure. **(5marks).**

li). Demonstrate how the appropriateness of Cost Benefit Analysis is significant in evaluating transport investment projects. **(5marks).**

Q4.

a). Outline how transport forecasting of freight and passenger traffic significantly determines the potential demand for provision of transport infrastructure. **(10marks).**

b). explain the extent of pricing and quality of transport services in developing countries where there is still short supply and poor quality of transport infrastructure. **(10marks).**

Q5.

a). Describe how the socio-political issues of a country affect the transport infrastructural progress in urban transportation. **(10marks).**

b). Show how vehicle technology improvement in transportation contributes to enhanced welfare by widening the scope of opportunities for consumers and producers. **(10marks).**

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