



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2023/2024 ACADEMIC YEAR**

**FOURTH YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCES,  
ENVIRONMENTAL STUDIES AND AGRICULTURE  
BACHELOR OF URBAN AND REGIONAL PLANNING**

**COURSE CODE: URP 4142-1**

**COURSE TITLE: TRANSPORTATION AND TRAFFIC  
PLANNING I**

**DATE: 14<sup>TH</sup> DECEMBER 2023**

**TIME: 1430-1630 HRS**

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## **INSTRUCTIONS TO CANDIDATES**

Section A is compulsory

Answer **ALL** questions in section A and any other **THREE** in section B.

This paper consists of 2 printed pages. Please turn over for questions.

**Section A:**

**20 MARKS**

**(ANSWER ALL QUESTIONS IN SECTION A)**

**Q1)** Explain the difference between wayleaves and easements as used in infrastructure planning **(2 marks)**

**Q2)** State five objectives of Origin-Destination survey data taken during transportation study **(5 Marks)**

**Q3)** Outline the role of transportation in urban areas **(4 Marks)**

**Q4)** State the key transport demand functions that determine the nature of what is being transported in regional planning **(4 marks)**

**Q5)** Using appropriate diagrams, describe the supply and demand curve for transportation. **(5 marks)**

**SECTION B: 30 MARKS (ANSWER ANY THREE QUESTIONS)**

**Q6)** Using relevant illustrations and examples, explain the hierarchy of routes in transportation planning. **(10 marks)**

**Q7)** Discuss using an appropriate diagram how land use impacts transport and vice versa. **(10 marks)**

**Q8)** Explain the key factors to consider when determining the location of the following transport facilities in Kenya;

a) Airport **(4 marks)**

b) Harbor **(4 marks)**

c) Railway station **(4 marks)**

**Q9) a)** Discuss why public transportation is prioritized in transport planning **(5 Marks)**

**b)** Explain public transport promotional measures **(5 marks)**

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