



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS IN
SPATIAL PLANNING
SEMESTER 2016/2017 ACADEMIC YEAR

CENTRE: MAIN CAMPUS

COURSE CODE: PSP 3326

COURSE TITLE: TRANSPORTATION PLANNING

EXAM VENUE:

STREAM: SPATIAL PLANNING

DATE:

EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer question 1 (compulsory) and ANY other 2 questions.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

1) (a) Define transportation planning

(2 marks)

- (b) Explain the five steps in transportation planning (10 marks)
- (c) Explain six reasons for transportation planning (6 marks)
- (d) Explain six challenges facing urban transportation in Kenya (12 marks)
- 2) (a) Define accessibility as used in transportation (2 marks)
- (b) Explain four general factors that affect accessibility (4 marks)
- (c) Explain two major discoveries that revolutionized the transport sector (2 marks)
- (d) Explain 6 factors considered when choosing a transport facility (12 marks)
- 3) (a) Discuss the systems approach as used in transportation planning (4 marks)
- (b) Discuss two characteristics of the systems approach (2 marks)
- (c) Explain four advantages of the systems approach (8 marks)
- (d) Explain 6 ingredients of an integrated transport plan (6 marks)
- 4) (a) Explain 5 goals of modern transportation planning (5 marks)
- (b) Explain five reasons why transport is changing (10 marks)
- (c) Discuss five components of the travel way circulation system in urban areas (5 marks)
- 5) (a) Explain the three major factors that influence the choice of mode by travellers (6 marks)
- (b) Explain how the causal factors are represented in the trip-end type modal split model (4 marks)
- (c) Discuss the set of variables used in the trip interchange type of mode-choice model (6 marks)
- (d) Explain two disadvantages of the earlier mode-choice models (4 marks)