



W1-2-60-1-6

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS 2018/2019
FOURTH YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN LAND RESOURCES PLANNING AND MANAGEMENT
ALP 2402: INFRASTRUCTURE AND UTILITIES PLANNING

DATE: DECEMBER 2018

TIME: 2 HOURS

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

1. a) Citing relevant examples, define the following terms:
 - i) Public utilities (2 Marks)
 - ii) Infrastructure (2 Marks)
- b) Discuss the characteristics and the composition of public infrastructure and utilities (8 Marks)
- c) Focusing on Kenya, and using relevant illustrations, describe the various opportunities available for infrastructure and utilities planning (5 Marks)
- d) "Provision of key infrastructure and utilities has a direct impact on Local Economic Development." Discuss the assertion of this statement citing relevant examples where necessary. (5 Marks)
- e) Expound on the role of the national and county governments in the provision of infrastructure and utilities in Kenya. (8 Marks)
2. a) Describe the various components of a water supply system (4 Marks)
- b) Briefly describe the main methods of waste water treatment (6 Marks)
- c) Using relevant examples, expound on the reasons why equitable provision and distribution of clean drinking water as envisioned in Kenya's Vision 2030 is still a "mirage" (10 marks)
3. a) Using local examples discuss the new and/or emerging trends in the housing sector in Kenya today. (4 Marks)
- b) Discuss various ways of financing housing projects in Kenya (6 Marks)
- c) Citing relevant examples, discuss the factors considered during planning for and development of housing infrastructure (10 Marks)
4. "Public-private partnerships are instrumental in the provision and management of public infrastructure and utilities in Kenya." Expound on this statement using suitable examples where applicable (20 Marks)
5. a) Discuss the principles applicable while planning for provision of transport infrastructure and utilities (10 Marks)
- b) "Inadequate provision of infrastructure and utilities in Kenya is a product of poor governance." Discuss this statement using suitable illustrations (10 Marks)