



THE TECHNICAL UNIVERSITY OF KENYA

SCHOOL OF ARCHITECTURE AND BUILT ENVIRONMENT

Department of Urban and Regional Planning

Bachelor of Built Environment in Urban Design and Development
Bachelor of Built Environment in Urban and Regional Planning

Year III Semester II EXAMINATION

EAPR 3236 Public Health in Urban Planning

EAPQ3236 Public Health in Urban Design

Time: 2 hours

INSTRUCTIONS TO CANDIDATES

Answer Question One and any other Two Questions of Your Choice from Section Two in the Answer Booklet Provided. Start each Question in a Fresh Page.

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Answer 3 Questions. Question One from Section One and any other Two Questions of your choice from Section Two.

Section One: Compulsory(30 marks)

Question 1

In urban planning, water and sanitation projects are considered important infrastructural developments in the improvement of Public Health.

- (a) Identify three infrastructures within the water and sanitation projects with an impact to Public Health. **6 Marks**
- (b) Explain the relationship between Urban Planning and Public Health. **4 Marks**
- (c) Discuss the health effects of the water and sanitation projects upon implementation. **10 Marks**
- (d) Cite the negative environmental, social and health impacts associated with these kinds of projects within the concept of EIA/EA **10 Marks**

Section Two

Question 2

Discuss the health effects associated with new agricultural developments under the following;

- (a) Advantages of an agricultural project. **5 Marks**
- (b) Environmental changes brought about by irrigation practices. **5 Marks**
- (c) Impacts of farming on water quality. **5 Marks**
- (d) Impacts of farming on Health. **5 Marks**

Question 3

Energy use is known to have benefits to Public Health

- (a) Identify four sources of energy and their benefits to health. **5 Marks**
- (b) Explain the environmental and health effects of hydropower. **10 Marks**
- (c) Propose strategies to minimize the adverse health effects in relation to energy. **5 Marks**

Question 4

Industrial development Impacts health in many ways

- (a) Discuss at least three occupational health diseases **3 Marks**
- (b) Discuss five risks to the Public Health associated with industrial development. **10 Marks**
- (c) Suggest the necessary strategies to minimize adverse health effects to the population **7 Marks**

Question 5

One of the most critical functions of urban planning is to ensure habitability of a building.

- (a) Explain the link between urban poverty and housing **5 Marks**
- (b) Identify three laws and their relevance to urban planning, health and environment. **6 Marks**
- (c) You have been asked to review building plans. What public health factors should you take into consideration in determining approval? **9 Marks**