



THE CO-OPERATIVE UNIVERSITY OF KENYA

END OF SEMESTER EXAMINATION DECEMBER -2022

**EXAMINATION FOR THE DEGREE OF BACHELOR DISASTER RISK MANAGEMENT
AND SUSTAINABLE DEVELOPMENT**

UNIT CODE: BDRM 4112

UNIT TITLE: URBAN DISASTER PLANNING

DATE: 15TH THURSDAY, DECEMBER, 2022

TIME: 9:00 AM – 11:00 AM

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INSTRUCTIONS:

- **Answer question ONE (compulsory) and any other TWO questions**

QUESTION ONE

- a) Explain how urban informal settlements affects urban environment. (10 marks)
- b) Explain how the concept of zero carbon cities can assist in solving planning problems (10 marks)
- c) Discuss approaches that disaster management practitioner should use when working with urban local authorities and communities in post disaster phase. (10 marks)
- d) Discuss giving examples, positive and negative of aspects of urban settings that humanitarian workers may encounter during disaster response planning. (10 marks)

QUESTION TWO

- a) Explain challenges experienced by organizations that respond to urban disasters. (6 marks)
- b) Disaster events are complicated in urban areas and require specific skills in identifying affected populations. Discuss urban assessment and targeting approaches. (14 marks)

QUESTION THREE

- a) Discuss TWO theories explaining the emergence of towns and urban areas. (8 marks)
- b) Discuss key features of (i) Grid model/Hippodamian plan, (ii) sector and (iii) concentric zone theories that explain how towns are arranged. (12 marks)

QUESTION FOUR

- a) Discuss characteristics of resilient Cities. (10 marks)
- b) Urban areas are more complex in terms of risk profiles and disaster management professionals must take cognizant of this fact when planning for urban disaster response. Discuss characteristics that differentiate urban environment from rural. Discuss the important implications in terms of risk governance when planning. (10 marks)

QUESTION FIVE

- a) Explain giving examples urban green and blue infrastructure. (6 marks)
- b) Discuss benefits of restoring ecosystem services in urban areas. (14 marks)