

The Co-operative University of Kenya

END OF SEMESTER EXAMINATION DECEMBER-2018

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

UNIT CODE: CODM 2406

UNIT TITLE: URBAN DISASTER PLANNING

DATE: DECEMBER, 2018

TIME:

INSTRUCTIONS:

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

QUESTION ONE

- (a) Distinguish between structural mitigation and non-structural mitigation (4 marks)
- (b) What is urban green and blue infrastructure (4 marks)
- (c) Discuss the following disaster plans (10 marks)
- Contingency plan
 - Business continuity plan
 - County disaster management plan
 - Hazard plan
- (d) With use of relevant examples, explain the following terms (12 marks)
- Urban green roofs
 - Zero carbon city
 - Urban ecosystem
 - Slum upgrading

QUESTION TWO

- (a) Discuss Central place theory that explains the emergence of towns and urban areas (8 marks)
- (b) Discuss key feature of the following; (12 marks)
- Grid mode/Hippodamian plan
 - Sector and
 - Irregular pattern theories that explain how towns are arranged

QUESTION THREE

- (a) Explain urban social economic and physical features (6 marks)
- (b) Healthy ecosystems provide natural defenses to hazards making degraded ecosystems to reduce community resilience. Discuss how urban environmental aspects affect urban resilience (14 marks)

QUESTION FOUR

- (a) Explain giving examples how change in climate is impacting on urban areas (12 marks)
- (b) Discuss benefits of restoring ecosystem services in urban areas (8 marks)

QUESTION FIVE

- (a) Discuss the role played by governments in urban risk reduction (10 marks)
- (b) Although significant progress has been made in urban risk assessment, they do not address vulnerabilities and capacities of people to risks adequately. Discuss challenges faced when conducting risk assessment for urban slums (10 marks)