The Co-operative University of Kenya

END OF SEMESTER EXAMINATION DECEMBER-2018

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

UNIT CODE: CODM 2405

UNIT TITLE: HAZARDOUS MATERIALS AND WASTE MANAGEMENT

DATE: DECEMBER, 2018 TIME:

INSTRUCTIONS:

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

QUESTION ONE

(a) Define Municipal Solid Waste in terms of source

(5 Marks)

- (b) Briefly, describe the procedures for household waste composition analysis as a basis for planning a waste recycling program in any city. (5 Marks)
- (c) Using a diagram, outline the key components of an Integrated Solid Waste Management (ISWM) system. (10 Marks)
- (d) With examples, define Hazardous Waste (HWM)

(5 Marks)

(e) Explain the role of a Transfer Station in a Solid Waste Management system

(5 Marks)

OUESTION TWO

(a) Outline and discuss 10 major Factors to consider when selecting waste collection and transportation vehicles in a less developed country. (20 Marks)

QUESTION THREE

(a) With examples, describe effective solid waste reduction strategies and technologies that may be applied by The Cooperative University of Kenya management to achieve a clean environment in the institution. (20 Marks)

QUESTION FOUR

(a) Following a sequential approach, describe steps of planning and implementation of a successful solid waste recycling program for Nairobi City County. (20 marks)

QUESTION FIVE

(a) Outline and explain the key environmental and social factors to consider when selecting and planning a sanitary landfill site for a city (20 Marks)