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(University of Choice)

MASINDE MULIRO UNIVERSITY OF

SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE

OF

BACHELOR OF SCIENCE IN DISASTER MITIGATION AND SUSTAINABLE DEVELOPMENT (DMSD)

COURSE CODE: DSM 104

COURSE TITLE: PRINCIPLES OF CONSERVATION

DATE: 29/04/2022

TIME: 8 – 10AM

INSTRUCTIONS TO CANDIDATES

This Paper contains **FOUR** Questions.

Answer Question **ONE** and any other **TWO** Questions.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE

- a) Explain the following terms as used under the principles of conservation:
- i) Water pollution [1 Marks]
 - ii) Biodiversity [1 Marks]
 - iii) Environment [2 Marks]
 - iv) Habitat loss [2 Marks]
 - v) Population explosion [2 Marks]
 - vi) Aquatic biodiversity [2 marks]
- b) Distinguish between conservation and preservation. [4 Marks]
- c) Discuss how human interventions in Africa have exacerbated aquatic species extinction. [8 Marks]
- d) Provide available options for addressing the current global water crisis. [8 Marks]

QUESTION TWO

- i). State the causes of the current global environmental crisis. [5 Marks]
- ii). Explain the sources for chemical water pollution in Kenya. [6 marks]
- iii). Explain why the provision of safe drinking water is a global crisis. [4 marks]
- iv). Identify some of the interventions that could be used to reduce water pollution in Kenya. [5 marks]

QUESTION THREE

- i). Explain the current threats to coastal environments in Kenya. [9 Marks]
- ii). Explain the term "indigenous/local knowledge". [3 Marks]
- iii). Briefly describe the role of indigenous/local knowledge in natural resource conservation. [8 marks]

QUESTION FOUR

- i). Explain the term "invasive species". [3 Marks]
- ii). How do invasive species spread? [4 Marks]
- iii). List three methods that can be used to control invasive species in Western Kenya. [3 Marks]
- iv). Discuss the impacts of invasive species on the human environment. [7 Marks]
- v). Distinguish between "climate change" and "climate variability". [3 Marks]