



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF MASTER IN INFORMATION SYSTEMS
FIRST SEMESTER, 2021/2022
(JUNE-SEPTEMBER, 2022)

ISYS 800: ADVANCED TOPICS IN INFORMATION SYSTEMS

STREAM: Y1 S1

TIME: 3 HOURS

DAY: WEDNESDAY, 9:00-12:00 PM

DATE: 02/11/2022

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer ANY THREE Questions.***

QUESTION ONE

- a) You have been given a consultancy job as an Information Systems (IS) expert to advise a related company XYZ on possible uses and applications of artificial intelligence and machine learning. Using a relevant example/ case, discuss how adapting and using AI and ML would give that company XYZ some competitive advantage in the Kenyan market.

[10marks]

- b) In detail describe the implication to business of the various digital revolutions of the Internet of Things (IoT), 5G and Big data.

[10marks]

QUESTION TWO

- a) Using Africa as case, discuss how the blockchain technology can be leveraged in various sectors.

[10marks]

- b) Outline the various cybersecurity practices, policies and securities that make up the cyber security framework.

[10marks]

QUESTION THREE

- a) In detail discuss how and why edge computing will be important for an organization. [10marks]
- b) Automation of various business process has brought about both positive and negative aspects to various organization. Discuss them while justifying your position. [10marks]

QUESTION FOUR

- a) Discuss how virtual reality, augmented reality and mixed reality are changing the landscape of various organizations that have adopted them. Also, highlight the limitations of these technologies. [10marks]
- b) What is the future of the IoT technology? [10marks]