



# TECHNICAL UNIVERSITY OF MOMBASA

School of Humanities and Social Sciences

Social Sciences

## UNIVERSITY EXAMINATION FOR: BACHELOR OF INFORMATION SCIENCE

HIS 4402: OPEN SOURCE SOFTWARE AND TOOLS FOR LIBRARY & INFORMATION CENTERS

**SERIES:** DECEMBER 2024

**TIME:** 2 HOURS

**DATE:** Pick DateDec 2024

### Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

**Do not write on the question paper.**

### **Question ONE**

- i. Explain FIVE key reasons why people prefer using open source software over proprietary software (10 Marks)
- ii. Discuss FIVE unique characteristics of the open source development model. (10 Marks)
- iii. Highlight FIVE benefits of adopting open source working methods in corporate development environments (10 Marks)

### **Question TWO**

Explain Discuss five important reasons why organizations or individuals choose to build open-source communities. (10 Marks)

Highlight the five key principles that contribute to building a successful open-source community according to the mindset for success. (10 Marks)

### **Question THREE**

Highlight five key reasons why open standards are important in open source software development. (10 Marks)

Describe five core principles of open standards. (10 Marks)

### **Question FOUR**

Explain five reasons why the Apache License is considered one of the popular and widely deployed open-source licenses. (10 Marks)

Discuss five reasons why developers should include an open-source software license in their projects. (10 Marks)

Marks)

### **Question FIVE**

Describe five main functions of a web server in the context of website content delivery. (10 Marks)

Discuss five advantages (pros) of using Apache HTTP Server for hosting websites. (10 Marks)