



**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR MAY/AUGUST 2021/2022 FOR:  
BACHELOR OF SCIENCE IN COMPUTER SCIENCE, AND  
BACHELOR OF BUSINESS INFORMATION TECHNOLOGY**

**COURSE CODE: RCS 403; COURSE TITLE: COMPUTER AND SOCIETY**

**DATE: 3<sup>RD</sup> DECEMBER, 2021**

**TIME: 2 HOURS**

**GENERAL INSTRUCTIONS:**

Students are NOT permitted to write on the examination paper during examination time.

This is a closed book examination. Text book/Reference books/notes are not permitted.

**SPECIAL INSTRUCTIONS:**

This examination paper consists Questions in Section A followed by section B.

Answer **Question 1 and any Other Two** questions.

QUESTIONS in ALL Sections should be answered in answer booklet(s).

- 1. PLEASE start the answer to EACH question on a NEW PAGE.**
- 2. Keep your phone(s) switched off at the front of the examination room.**
- 3. Keep ALL bags and caps at the front of the examination room and DO NOT refer to ANY unauthorized material before or during the course of the examination.**
- 4. ALWAYS show your working.**
- 5. Marks indicated in parenthesis i.e. ( ) will be awarded for clear and logical answers.**
- 6. Write your REGISTRATION No. clearly on the answer booklet(s).**
- 7. For the Questions, write the number of the question on the answer booklet(s) in the order you answered them.**
- 8. DO NOT use your PHONE as a CALCULATOR.**
- 9. YOU are ONLY ALLOWED to leave the exam room 30minutes to the end of the Exam.**
- 10. DO NOT write on the QUESTION PAPER. Use the back of your BOOKLET for any calculations or rough work.**

## SECTION A: Answer ALL questions in this section.

### QUESTION ONE (30 MARKS)

(a) **Explain** the meaning of the following emerging terms in the information system technology (IST) and society situations (Give an example for each):

- (i) Offshore outsourcing (2 Marks)
- (ii) Right to be forgotten (2 Marks)
- (iii) Intellectual Rights (2 Marks)
- (iv) Platform as a Service (PaaS) (2 Marks)

(b) **Describe** FOUR ways in which Riara University (RU) has successfully adopted IST in its education business value chains (4 Marks)

(c) **Discuss** THREE ethical, social and political issues that are raised by the emerging ISTs at RU (6 Marks)

(d) **Explain** FOUR IST business barriers that RU should put in place to protect its EBusiness (Give examples) (4 Marks)

(e) **Discuss** the competitive advantages that may be derived from using tablet computers and smart phones in business organization (include roles each device is best suited for) (4 Marks)

(f) **Describe** TWO trends that has enabled IST applications in business organizations to lower the marginal costs in data transportations across communication channels (4 Marks)

## SECTION B: Answer any Two questions. Use short answers (40 Marks).

### QUESTION TWO (20 Marks)

(a) **Discuss** FIVE stages of the Information Technology infrastructure evolutions. Give examples (10 Marks)

(b) Kenya launched a new Universal Health Coverage (UHC) under the “Big Four” agenda aimed at transforming the lives of all Kenyans while using IST to bridge the inequalities in poverty, and medical services for all citizens (DN, 2018). **Explain** FOUR ethical issues the Government may have to deal with before gaining full trust of the society. (4 Marks)

- (c) **Discuss** THREE reasons one may attempt unauthorized access to information in database in a business organization **(6 Marks)**

### **QUESTION THREE (20 Marks)**

- (a) **Describe** FIVE unique features of the global e-commerce, digital markets, and digital goods **(10 Marks)**
- (b) **Explain** FOUR critical features of the online trading has affected business-to-business transactions in the last one decade **(4 Marks)**
- (c) Using your knowledge of existing and past operating systems (e.g., Windows Android, MAC iOS, Unix), **discuss** changes you do expect to see in information and communication technology, processes as well as people in the next ten years? **(6 Marks)**

### **QUESTION FOUR (20 Marks)**

- (a) **Explain** THREE main differences between Computer Act 2015 (2012) and the Cybercrime Bill 2017 **(6 Marks)**
- (b) **Discuss** THREE methods used by business organizations to protect their computer resources against cybercrimes. **(6 Marks)**
- (c) **Describe** FOUR critical characteristics that an organization, such as RU, may have to keenly look at before taking a decision to acquire or upgrade its information system technology **(8 Marks)**

### **QUESTION FIVE (20 Marks)**

- (a) **Discuss** THREE ways in which the convergence of communication technologies does pose threats to the society in the current industrial technology revolution 4.0 era **(6 Marks)**
- (b) **Discuss** TWO very important risk mitigation methods in the IST systems projects **(4 Marks)**
- (c) **Describe** how business intelligence and business analytics support decision making in firms **(10 Marks)**