****

**GARISSA UNIVERSITY**

**UNIVERSITY EXAMINATION 2018/2019 ACADEMIC YEAR ONE**

**SECOND SEMESTER EXAMINATION**

**SCHOOL OF INFORMATION SCIENCE AND TECHNOLOGY**

**FOR THE DEGREE OF BACHELOR OF INFORMATION SCIENCE**

**COURSE CODE: INS 101/ COM 110**

**COURSE TITLE: INTRODUCTION TO COMPUTERS/ INTRODUCTION TO COMPUTERS AND COMPUTING**

**EXAMINATION DURATION: 2 HOURS**

**DATE: 10/02/2020 TIME: 2.00-4.00 PM**

**INSTRUCTION TO CANDIDATES**

* **The examination has FIVE (5) questions**
* **Question ONE (1) is COMPULSORY**
* **Choose any other TWO (2) questions from the remaining FOUR (4) questions**
* **Use sketch diagrams to illustrate your answer whenever necessary**
* **Do not carry mobile phones or any other written materials in examination room**
* **Do not write on this paper**

**This paper consists of TWO (2) printed pages *please turn over***

**QUESTION ONE (COMPULSORY)**

1. An institution intends to purchase computer system to be used in its daily activities.
	1. Explain five factors they need to consider while purchasing computer system  **[5 marks]**
	2. Explain five type of application software they can purchase **[5 marks]**
2. Define an operating system and explain five roles of operating system in a computer system  **[5 marks]**
3. Explain five benefits of internet in an organization **[5 marks]**
4. Explain the application areas of computer in an organization **[5 marks]**
5. Explain five advantages of electronic data processing over manual system of data processing **[5 marks]**

**QUESTION TWO**

1. Explain five factors that determine the processing power of a computer **[5 marks]**
2. Cyber threats and attacks have increased both in size and magnitude.
3. Explain five motivating factors to the above phenomenon **[5 marks]**
4. Explain five types of attacks in a computer system **[5 marks]**
5. Explain five technologies an organization can employ to secure its data against attacks **[5 marks]**

**QUESTION THREE**

Information Communication Technology has changed the people’s way of live. Explain this phenomenon in regard to **[20 marks]**

1. Communication
2. Learning
3. Entertainment
4. hospital

**QUESTION FOUR**

1. Mobile money transfer has gained roots in kenya. Explain five advantages of this system to the users and economy. **[5 marks]**
2. Explain five types of keys found on a standard computer key board **[5 marks]**
3. With a well labeled diagram explain the functional components of a computer system **[10 marks]**

**QUESTION FIVE**

1. Information technology is an example of an industry that is a powerful change agent.
2. Explain five challenges facing education system in Kenya and suggest ICT solutions to these problems **[10 marks]**
3. Explain the factors derailing adoption of ICT technologies in Kenya **[5 marks]**
4. Explain the advantages of a computerized file system over the manual file system **[5 marks]**