**THE UNITED REPUBLIC OF TANZANIA**

**NATIONAL EXAMINATIONS COUNCIL OF TANZANIA**

**DIPLOMA IN SECONDARY EDUCATION EXAMINATION**

**738 INFORMATION AND COMMUNICATION TECHNOLOGY**

**Time: 3 Hours** **Year: 2023**

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## Instructions

1. This paper consists of sections **A** and **B** with a total of **fourteen (14)** questions**.**
2. Answer **all** questions.
3. Section **A** carries **forty (40)** marks , and section **B** carry **sixty (60)** marks.
4. Cellular phones and any unauthorized materials are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet (s)

## SECTION A (40 Marks)

Answer **all** questions in this section

1. Identify four features which make Microsoft publisher unique when compared to other computer applications.
2. Describe two usefulness of bus and star topologies in establishing a Local Area Network (LAN) to facilitate communication and sharing of resources.
3. Give four reasons, as to why there is a need to use interactive multimedia in the teaching and learning process.
4. Explain four stages that computers undergo during booting process.
5. Elaborate impacts of spending many hours in using mobile phones, computers, watching television and listening to the radio.
6. Explain four benefits of using audio – visual materials in teaching and learning process.
7. Write four threats that may occur if the computer is connected to a network.
8. Write four types of database system that teachers can practice in their IPADs.
9. Write four distinctive features between data and information.
10. Explain how data flows to produce a document by using a diagram.

## SECTION B (60 Marks)

Answer **all** questions from this section

**11.** Explain five merits of using electronic file over physical file system in data storage.

**12.** Elaborate five employment opportunities which learning of Information and Communication Technology (ICT) offers to teachers.

**13.** Analyze five features that will attract a secretary to use a new multimedia device for typing activities.

**14.** Validate the fields where database management system is applied.