THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATIONS COUNCIL OF TANZANIA

DIPLOMA IN SECONDARY EDUCATION EXAMINATION

738 INFORMATION AND COMMUNICATION TECHNOLOGY

Time: 3 Hours **Year: 2022**

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. Use four factors to provide the importance of information.
2. Identify the memory space contained in the statement “In God we trust” in the storage area by counting the characters.
3. Describe the type of relationship that exists between two tables in a given case as well as drawing an entity relationship diagram to show the relationship in the given case.
4. Distinguish dimensional from multidimensional array by giving one C++ array declaration statement.
5. Compare smart phones and computers.
6. Provide the effects of prolonged television watching to human health.
7. Explain why foods and beverages not allowed in the computer laboratories.
8. Provide the positive impacts of search engines in contributing to students thinking capacity, problem solving and decision making.
9. Explain how ICT can be integrated in the learning of mathematics and science subjects among student teachers.
10. Analyze four curriculum resources necessary during teaching and learning process.

SECTION B (60 Marks)

Answer **all** questions from this section

11. Assess the contribution of Multimedia in teaching and learning process. Provide five (5) points.
12. Explore five benefits secondary school students get from learning ICS.
13. Analyze the importance of opting for word processor during the preparation of notes.
14. Elaborate five assessment tools that can be used in assessing Information and Computer Studies in secondary schools.