THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATIONS COUNCIL

GRADE A TEACHERS' CERTIFICATE EXAMINATION

635 INFORMATION AND COMMUNICATION TECHNOLOGY

Time: 3 Hours. **Year: 2012**

INSTRUCTIONS

1. This paper consists of sections A, B and C.
2. Answer all questions in sections A and two (2) questions from each sections B and C.
3. Section A carries 40 marks, section B and C carry 30 marks.
4. Cellular phones and 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. Each question carries 4 marks.

1. Give four reasons why depending on ICT alone for school management can be risky.
2. Mention four ways in which the use of ICT may contribute to environmental pollution.
3. State four differences between open-source software and proprietary software.
4. Outline four reasons why data backup is necessary in educational institutions.
5. Explain four challenges that arise when integrating ICT in teaching students with disabilities.
6. Give four reasons why computer ethics is important in the teaching profession.
7. List four effects of poor network security in a school environment.
8. State four reasons why information overload can affect decision-making in organizations.
9. Mention four differences between analog communication and digital communication.
10. Explain four reasons why developing countries face difficulties in adopting advanced ICT systems.

SECTION B (30 Marks)

Answer any two questions from this section. Each question carries 15 marks.

11. Analyse five challenges that face governments when introducing e-governance systems and propose how they can be addressed.
12. Discuss five reasons why computer literacy should be considered a basic skill in the 21st century.
13. Explain five ways in which ICT has contributed to widening the gap between developed and developing countries.

SECTION C (30 Marks)

Answer any two questions from this section. Each question carries 15 marks.

14. "ICT is both a solution and a problem in modern society." With six points, assess this statement by providing arguments on both sides.

15. Evaluate six reasons why cyber security is now considered a critical national issue in developing countries like Tanzania.

16. The future of ICT is moving towards Artificial Intelligence (AI) and automation. Discuss six opportunities and six challenges this shift may bring to education and employment in Africa.