**THE UNITED REPUBLIC OF TANZANIA**

**NATIONAL EXAMINATIONS COUNCIL**

**GRADE A TEACHERS' CERTIFICATE EXAMINATION**

**635 INFORMATION AND COMMUNICATION TECHNOLOGY**

**Time: 3 Hours.** **Year: 2009**

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## 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 form this section

1. Mention four advantages of online banking.
2. State four disadvantages of using pirated software.
3. List four features of reliable ICT networks.
4. Mention four ICT devices used in smart homes.
5. Outline four roles of ICT in modern journalism.
6. State four challenges of ICT infrastructure in rural areas.
7. List four benefits of ICT in transport and logistics.
8. Mention four examples of malicious software.
9. Give four advantages of computer simulation in education.
10. State four differences between hardware and software.

**SECTION B (30 Marks)**

Answer any two questions from this section

11. Explain five measures to ensure effective use of ICT in schools.
12. Discuss five ways ICT supports inclusive education.
13. Analyse five challenges of ICT adoption in public health.
14. Explain five contributions of ICT in achieving economic development.

## SECTION C (30 Marks)

Answer any two questions from this section

15. Critically assess five impacts of artificial intelligence on employment.

16. With examples, evaluate five dangers of cyberbullying among youths.

17. Justify five reasons why ICT should be integrated into all sectors of the economy.

18. Analyse five ethical challenges arising from the use of big data.