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THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
DIPLOMA IN SECONDARY EDUCATION EXAMINATION

738 INFORMATION AND COMMUNICATION TECHNOLOGY

Time: 3 Hours **Friday, 15th May 2009 p.m.**

Instructions

1. This paper consists of sections A, B and C.
2. Answer **all** questions in section A, **two (2)** questions from section B and **two (2)** questions from section C.
3. Section A and B carry 40 marks each, section C carries 20 marks.
4. Cellular phones are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).

This paper consists of 3 printed pages.

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SECTION A (40 Marks)

Answer **all** questions in this section.

1. (a) Explain the concept of information.

   (b) What are the source of information?

2. (a) What is meant by the phrase "Search engine"?

   (b) Write down four steps that are followed when printing a searched information.

3. The usefulness of spreadsheet program in schools is grading of the student's test scores. From the criteria given below, produce a cell formula (If formula) to grade the following scores:-

   86 – 100 → A
   66 – 85 → B
   51 – 65 → C
   41 – 50 → D
   21 – 40 → E
   0 – 20 → F

4. Colour, if not used carefully in designing and developing websites, can rude the website visitors. Give your comments on this statement.

5. Analyse four (4) applications of ICT in daily life activities.

6. What is the corresponding program in Microsoft windows operating system for the following?
   (a) Open office 2.2 calc.
   (b) Open office 2.2 impress
   (c) Open office 2.2 writer

7. Draw a computer system plan showing the following main components of the computer systems:-

   (a) In put devices
   (b) Processing devices
   (c) Storage (memory)
   (d) Output devices

8. Briefly explain four (4) stages in developing a computer program.

9. With examples differentiate single task from multi tasking operating systems.

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10. Multimedia technology is a very useful medium in today's teaching/learning process. Show how four (4) of the following technologies (media) can be applied in teaching and learning process to make it more interactive:-

(a) Text
(b) Audio
(c) Still images
(d) Animations
(e) Video

SECTION B (40 Marks)

Answer **two (2)** questions from this section.

11. Suppose you are the head of the ICT department in your school; create ten safety rules and regulations which may help to sustain the ICT project against various misusers and misuses of computers in the laboratory.

12. (a) Explain the meaning of standardization of test scores.

(b) Determine how useful is the standardization of test scores. (Give any five).

13. Describe the general requirements of a computer laboratory in a school, or institution for effective teaching and learning process.

14. Identify appropriate criteria for selecting teaching strategies for teaching and learning ICS.

SECTION C (20 Marks)

Answer **two (2)** questions from this section.

15. For effective teaching and learning of ICS subject, it is proposed that the criteria of buying computers shall be based on compatibility and cost effectiveness. Discuss with examples.

16. Compose a lesson plan on the sub-topic, "Storage Devices" for teaching form I class in ICS.

17. Discuss the principles of teaching and learning that fosters students learning in the ICS subject.

18. Discuss the rationale of learning safety regulation in teaching and learning process of ICS subject.

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