ICT 2011

SECTION A (40 Marks)

Answer **all** questions in this section.

1. State the relationship between data and information.

2. Differentiate application software from system software.

3. Explain briefly any four factors which will indicate that your computer has been infected by viruses.

4. Define the term network topology and then list any three examples of network topologies.

5. Write the long form of the following abbreviations as used in ICT.
   (a) HTML

   (b) BIOS

   (c) FTP

   (d) URL

6. Distinguish between a worksheet and a workbook as used in spreadsheet programs.

7. Identify any four factors which you would consider important while selecting a teaching and learning method for ICS.

8. Briefly explain the following;

   (a) A primary key as used in databases.

   (b) The function of a primary key in a database.

9. Give four reasons why it is important to keep assessment records such as test records in teaching and learning ICS.

10. Essential resources for the ICS teacher include the teacher manual and teacher guide. Give two differences between a teacher manual and a teacher guide.

SECTION B (30 Marks)

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

11. Flowcharts make one of the tools used by computer programmers. Discuss five importance of using flowcharts in the process of program design.

12. Given that you are provided with all the resources you need to develop a network, which network topology would you prefer if you were to choose between a star and a bus topology? Give at least four reasons to support your choice.

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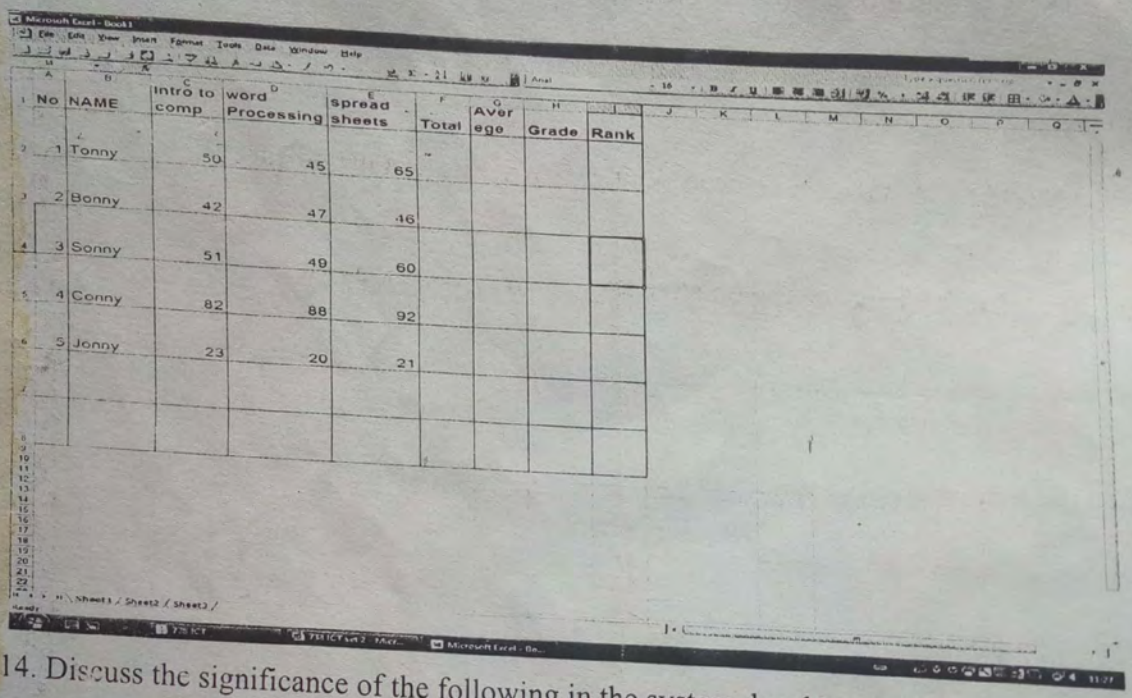
13. Below is a worksheet that represents student performance in "BASIC COMPUTER SKILLS" at Trainers T. C. Study the scores and then answer the following questions.

(a) Using the "SUM" key word, what will be the formula to compute students' Total score?

(b) Using the AVERAGE key word, what will be the formula to compute students' average score?

(c) Use the "IF" command to develop a formula to generate students GRADE given the following grade ranges: A = 81 – 100, B = 61 – 80, C = 41 – 60 and D = 21 – 40.

(d) What will be the formula to rank students from the highest to the lowest performer?



No	NAME	Intro to comp	word Processing	spread sheets	Total	Average	Grade	Rank
1	Tonny	50	45	65				
2	Bonny	42	47	46				
3	Sonny	51	49	60				
4	Conny	82	88	92				
5	Jonny	23	20	21				

14. Discuss the significance of the following in the system development life cycle.

(a) Analysis

(b) Designing

(c) Testing

(d) Implementation

(e) Evaluation

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SECTION C (30 Marks)

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

15. One of the tools which the teacher needs to prepare at the beginning of the academic year is a scheme of work. Discuss how the absence of a syllabus affects the teachers' preparation of scheme of work.

16. Identify five ways in which test items can be constructed. Provide one example for each way to support your answer.

17. Imagine that you have been posted to teach in a newly opened school. You are expected to use among other resources, a computer to teach "introduction to Word Processing" as a subtopic at form three level.

    (a) Write at least three specific objectives for your lesson.

    (b) Mention at least four competencies you wish to achieve in your lesson and explain how you will achieve them.

    (c) Assume your specific objectives have been achieved; write an evaluation for your lesson.

18. Discuss the statement that formative and summative assessments in ICS are two sides of the same coin.

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