

061006T4ICT
ICT TECHNICIAN LEVEL 6
ICT/OS/IT/CR/02/6
INSTALL COMPUTER SOFTWARE
Mar. /Apr. 2023
Time: 3 hours



THE KENYA NATIONAL EXAMINATIONS COUNCIL

WRITTEN ASSESSMENT

3 hours

INSTRUCTIONS TO CANDIDATE

Maximum marks for each question are indicated in brackets ()

*The paper consists of **TWO** sections: **A** and **B**.*

*Answer **ALL** questions in Section **A** and **any THREE** questions from section **B** in the answer booklet provided.*

Candidate to answer all questions in English.

This paper consists of 3 printed pages
Candidates should check the question paper to ascertain that all the pages are printed as indicated
and that no questions are missing

Section A (40 marks)

Answer **ALL** the questions in this section.

1. Define the term as used in computer software installation.
 - i. Kernel (2 Marks)
 - ii. installation manual (2 Marks)
2. Tom has realized that his computer software is not functioning appropriately after installation. He has been advice to perform maintenance. List **four** benefits that will be achieved by carrying out the software maintenance. (4 Marks)
3. List **four** types of operating systems required by the computer to perform various functions. (4 Marks)
4. Software piracy is a major challenge in our society today identifies **four** ways in which software piracy can be minimized. (4 Marks)
5. Highlight **four** benefits of software documentation while carrying out installation and maintenance of the software. (4 Marks)
6. Identify **four** key elements to consider before upgrading operating system of the computer. (4 Marks)
7. Salit Company has acquired new software to be used for stock taking. Explain **two** approaches used in integration testing of the software. (4 Marks)
8. Differentiate between white box testing and black box testing as used in software development. (4 Marks)
9. Jane is a computer user, identify **four** factors that can prompt her to change the password of her computer (4 Marks)
10. Pale company has bought a new computers and it intends to install software in the computers. Explain any **two** types of software licenses that it will require. (4 Marks)

Section B (60 marks)

Answer any THREE questions in this section

11. a) Explain **four** reasons for carrying out software upgrade on modern general purpose computers. (8Marks)
- b) Describe **four** soft-wares acquisition methods that Pelto Company limited would consider when purchasing new software for their computers. (8 Marks)
- c) Discuss **two** benefits of multithreaded programming on the modern developed single processor and multiprocessor of computer. (4 Marks)
12. a) Explain **three** functions of the operating system as a category of system software in computers. (6 Marks)
- b) Describe **three** categories of software documentation that provide in-depth information on software as an end product (6 Marks)
- c) Discuss **four** different types of software licenses that provide legal binding for the distribution and use of the software (8 Marks)
13. a) Explain **five** categories of software testing techniques that a developer will employ to test the software before handing it over to the end user. (10 marks)
- b) Discuss **five** types of software installation that an institution might use when installing the software on their newly purchased computers (10Marks)
14. a) Describe **five** types of operating systems used by the computer in the execution of the tasks allocated to it by the user. (10 Marks)
- b) Discuss **five** benefits of implementing preventive software maintenance (10 Marks)

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