

FORM FOUR CLUSTER KCSE MODEL9
COMPUTER STUDIES PAPER 1 QUESTIONS

SECTION A (40 Marks)

Answer all questions

1. State four different parts that make up a computer.
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2. Distinguish between logical and physical file.
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3. Briefly explain the emerging trends in micro computer technology in relation to size.
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4. (a) Explain two advantages of using universal serial bus.
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(b) Explain one reason why parallel cables are faster than serial cables in data transmission.
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5. (a) Describe two differences between metropolitan area network and wide area network.
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(b) List three components of local area network.
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6. (a) State four keyboard keys that work in a state of On/Off switches in operation.
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(b) Describe two precautions one needs to undertake when connecting a hard disk to a computer.
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7. List any two careers available in the market in the computer hardware.
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8. (a) Give one function of a main frame why its' difficult to detect and prevent a computer crime.
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(b) State the differences between autocorrect and auto complete as used in word processing.
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9. (a) Give one function of a main frame operating system which you would not expect to find in the operating system of a micro- computer.
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(b) Name four examples of application software.
10. Subtract : 01011_2 from 11001_2 .
11. (a) Differentiate between Cache and Buffer memories.
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(b) List and give the functions of computer buses.

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12. Outline four data types that can be entered into a spreadsheet.

13. Define virtual reality.

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14. Define the following terms:-

(i) Assembler :-

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(ii) Compiler :-

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(iii) Interpreter :-

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(iv) Source program :-

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(v) Object program :-

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(vi) Algorithm :-

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(vii) Flow chart :-

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(viii) Pseudo code :-

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SECTION B (60 Marks)

Answer question 15 and any other three questions

15. Madelene Cooperative Society pays 4 % interest on shares exceeding Kshs.20, 000 and 2% on shares that don't meet target. However no interest is paid on deposits in the members bank A/C.

Required:-

Design a Pseudo code and a flow chart that will:

(a) Prompt the user for shares and deposit of a particular member.

(b) Calculate the interest and total savings.

(c) Display and interest and total savings on the screen for a particular member.

16. (a) Explain the following terms in reference to the network.

(i) Multiplexing and Dimultiplexing.

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(ii) Simplex and half transmission.

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(b) Explain three types of physical network topologies.

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(c) Describe three duties of chef programmer.

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(d) List any four ICT related programmers offered at the Universities.

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17. i) List and briefly describe three components of a database system.

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ii) Define the following terms as used in a database:- a) Attribute

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b) Database model

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c) Macro

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iii) Explain three types of database models.

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iv) State three objectives of normalization.

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18. a) Define the following terms:

i) Record

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ii) File

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iii) Database

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iv) Field.

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b) i) List any three ways of dealing with virus on a computer.

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ii) Explain the following performed by:

a) The control unit.

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b) Arithmetic and logic unit (ALU)

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c) Main memory.

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iii) What is the difference between hacking and cracking.

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19. (a) Define the term ergonomics.

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(b) (i) Give any three advantages of using a fibre optic cable in data transmission.

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(ii) Name two types of fibre optic.

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(c) State three advantages of wireless communication.

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(d) Explain the following terms:

(i) Multiplexing.

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(ii) Bandwidth.

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(iii) Baseband signal.

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(e) Explain the uses of these communication devices.

i) Routers.

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ii) Hub.

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