

UGANDA ADVANCED CERTIFICATE OF EDUCATION
INTERNAL MOCK 2024
SUBSIDIARY ICT
Paper 1
2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- *The paper is made up of 20 equally weighted questions.*
- *Answer all questions in this paper.*
- *All answers should be written in dark blue or black ink in the spaces provided on the question paper.*
- *No additional answer sheets should be inserted.*

1. a) Differentiate between green computing and cloud computing. (01 mark)
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- b) State **four** elements of green computing. (04 marks)
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2. The booting process has got several backend processes to the attainment of the computers run time environment.
- a) Explain **three** backed booting processes. (03 marks)
- i)
-
-
- ii)
-
-
- iii)
-
- b) Give **two** situations that can necessitate a computer system reboot. (02 marks)
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-
-
3. a) Distinguish between a folder and a file. (02 marks)
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- b) Give **two** rules that must be followed whenever naming a file or a folder. (02 marks)
- (i)
-
- (ii)
-
- c) Write a saving criteria for MS power point file 2003 “mocks” in a folder called Wakissha which is located on a local drive D. (01 marks)

4. a) State **two** reasons why an alarm system is important in a computer laboratory. (02 marks)

b) Give **three** reasons for servicing computers. (03 marks)

- (i)
 (ii)
 (iii)

5. a) Distinguish between Editing and Proof reading. (02 marks)

b). Explain **three** editing features used in word processing. (03 marks)

- (i)
 (ii)
 (iii)

6. a). What is the difference between a buffer and a register? (02 marks)

b). List down **three** characteristics of the main memory. (03 marks)

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7. a). Define the term Service Utility. (02 marks)

b). Write brief notes about the following terms.

- (i) Disk defragmentation. (01 mark)

 (ii) Disk partitioning. (01 mark)

 (iii) Disk compression. (01 mark)

8. The following is a sample of a pay roll. The work sheet row and column readings are marked 1,2,3.....and A, B,C.....respectively.

| | A | B | C | D | E | F | G | H |
|---|----------|--------------|--------------|-----------|-----------|-----------|---------------|---------|
| 1 | NAME | HOURS WORKED | PAY PER HOUR | BASIC PAY | ALLOWANCE | GROSS PAY | TAX REDUCTION | NET PAY |
| 2 | MUGAGGA | 12 | 1500 | | | | | |
| 3 | BOKIRO | 28 | 650 | | | | | |
| 4 | SENTONGO | 26 | 450 | | | | | |
| 5 | KABANDA | 30 | 900 | | | | | |

| | | | | | | | | |
|----|----------|------|-----|--|--|--|--|--|
| 6 | KANNEEMU | 18 | 350 | | | | | |
| 7 | TEBYASA | 22.5 | 500 | | | | | |
| 8 | WANYAMA | 17 | 250 | | | | | |
| 9 | MAGUFULI | 33 | 180 | | | | | |
| 10 | TOTALS | | | | | | | |

Use the following expression to answer the questions that follow:

- Basic copy = Hours worked x pay per hour.
- Allowance is allocated at 10% of basic pay.
- Gross pay = Basic pay + Allowances.
- Tax deductions are calculated at 20% of gross pay.
- Net pay = Gross pay – Tax deduction.

Write formula using cell references for the following. (05 marks)

- a) d2.....
- b) E4.....
- c) F9.....
- d) G7.....
- e) H5.....

9. a). Define data communication. (02 marks)

.....

- b). Differentiate between Network protocol and Internet protocol. (02 marks)

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- c). Explain the role of the telephone line in internet connectivity? (01 mark)

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10. Write true or false for the following statements. (05 marks)

| | Statements | True / false |
|-------|--|--------------|
| (i) | The more the pixel per square inch on a computer monitor, the higher the resolution. | |
| (ii) | Dot matrix printers produce better images than ink jet printers. | |
| (iii) | A PDA is larger than a Desktop computer. | |
| (iv) | A number pad is used to enter a PIN | |
| (v) | A graphical user interface uses icons to represent applications. | |

11. a) Briefly explain the following terms as used in internet based technology.

- (i) Handle. (01marks)

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-
- (ii) Blog. (01marks)
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-
- (iii) WIKI (01marks)
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-
- b) Write the following in full (02 marks)
- LED;
- AGP;
12. a) What is a social networking website? (01 mark)
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- b) List **two** examples of social networking websites. (02 marks)
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-
- (c) State **two** disadvantages of social networking websites. (02 marks)
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13. Use the phrases in the list below to complete the statements. (05 marks)
- Public domain software
 - Share ware
 - Customized software
 - Firm ware
 - Command line interface
 - Graphical user interface
 - Object code
 - Simplex channel.
- a) is a single directional communication method.
- b) Programs tailored to meet particular users' needs are.....
- c) is a software donated freely and has no copy right restrictions.
- d) A stored logic is also referred to as.....
- e) The interface that represents more pictures on the screen is.....
14. a) Define information privacy. (01 mark)
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-
-
- b) State **two** symptoms of computer virus. (02 marks)
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- c) Mention **two** precautions taken to control computer viruses. (02 marks)
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15. a) Define group ware. (01 mark)
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- b) Differentiate between a hard bounce and soft bounce as applied to emails. (02 marks)
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- c) Mention **two** dangers of using computers to enhance telecommuting.(02 marks)

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16. a) Distinguish between the following ICT securities related concepts. (01 mark)
- i) Cracking and hacking. (01 mark)
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- ii) Eavesdropping and denial of service attack. (01 mark)
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- iii) Virus and a worm. (01 mark)
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- iv) Digital forensics and artificial intelligence. (01 mark)
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- b) Give **one** example of biometric devices. (01 mark)
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17. a) Define desktop publishing. (01 mark)
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- b). Explain the following graphic terms. (02 marks)
- (i). Rotate.
-
- (ii). Crop.
-
- c). Name **two** examples of desktop publication. (02 marks)
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18. a). Differentiate between expansion slots and expansion cards as applied in ICT. (02 marks)
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- b). Give **two** examples of expansion cards. (02 marks)
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- c). Give **one** function of a bus. (01 mark)
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19. a). Define the term machine cycle. (01 mark)
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- b). Briefly explain the **four** stages involved in the machine cycle. (04 marks)
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20. a). Explain the meaning of the term “Attenuation” in relation to data transmission. (01 mark)

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b). Mention **two** cases that may bring about attenuation in communication networks. (02 marks)

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c). Give **two** differences between guided and unguided communication. (02 marks)

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END