Name ....

Index number...

Signature...

S850/1
SUBSIDIARY ICT
THEORY
Paper 1
July/August 2024
$2\frac{1}{4}$ hours

ASSHU ANKOLE JOINT MOCK EXAMINATIONS 2024

Uganda Advanced Certificate of Education
SUBSIDIARY ICT
Paper one

2 hours and 15 minutes

INSTRUCTIONS TO CANDIDATES

Write your name, signature, center and personal number in the space provided.

The paper consists of 20 compulsory numbers.

All answers must be written in the spaces provided.

For Examiner's Use only

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q4	Q15	Q16	Q17

Q18	Q19	Q20	TOTAL

1. a) Define the term Information **Communication Technology** as used in computing. *(1 mark)*

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b) Kenya has of late been involved in demonstrations that have caused destruction of property and loss of lives, identify two ICT **tools** and how Kenya can utilize each tool to the conflicting parties. *(4 marks)*

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2. The fourth generation of computers has been characterized by advent and use of artificial intelligence (AI). Industrialization, education and health care are among the sectors that have embraced AI

a) Give two ways how AI has been utilized in the education sector

(2 marks)

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b) Identify three implication of **AI** to the education sector. *(3 marks)*

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3. Your school is contemplating on installation of CCTV cameras to help in surveillance of students and school property.

a. Write **CCTV** in full   *(1 mark)*

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b. In Four(4) ways describe how the CCTV will help in enforcing the above.

(4 marks)

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4. The president of Uganda, His excellence Yoweri Kaguta Museveni has consistently named ICT among the infrastructure necessary for economic growth and development.

a. As a student of ICT give two **careers** associated with ICTs   *(2 marks)*

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b. Give three opportunities that make ICT an attraction sector for students

(3 marks)

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5. Define the term **booting** as used in computing.   *(2 marks)*

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a. Identify the name of the first screen that loads after booting.   *(1mark)*

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b. Give two ways how you can protect the computer from **screen burning**.

(2 marks)

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6. (a) Differentiate between **directory** and **folder** as used in computing

(2 marks)

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(b) Give any two default **directories** in windows operating systems

(2marks)

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(c) Define the term **subfolder** as used in computing.   *(1   mark)*

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7. (a) Define the term **database management system**.   *(1   mark)*

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(b) Give two **objects** in a database.   *(2 marks)*

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(c) With the use database knowledge, explain what you think National Information Registration Authority (NIRA) uses to identify a specific citizen in the country (2 marks)

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8. (a) There are rapid changes in technology, notable being in output devices, input devices, processors and storage. Identify one cause of these rapid changes (1 mark)

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(b) Explain any two **data processing systems** known to you. (4 marks)

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9. (a) Differentiate between **paper jam** and **traffic jam** as used in ICTs (2 marks)

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(b) Give two causes of **traffic jam,** in relation to ICT   *(2 marks)*

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(c) Give one way you would prevent **paper jam** error.   *(1 mark)*

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10. (a) Partitioning of hard disk is one of the computer management skills, give the meaning of **disk partitioning.**   *(1mark)*

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(b) Give two reasons why hard disks are partitioned.   *(2 marks)*

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(c) If the hard disk is portioned into two, write the **drive letters** for:

          (2 marks)

i. Compact disk

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ii. Floppy disk drive

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11. (a) Identify the two types of memory as used in computing   *(2 marks)*

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(b) Identify three **mechanisms** of storage   *(3 marks)*

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12. (a) **RAM** and **ROM** are two parts of the main memory. Write each acronym in full   *(2 marks)*

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(b) Write three types of **ROM**.   *(3 marks)*

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13. Explain various stages involved in the **machine cycle**.   *(5 marks)*

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14. (a) Differentiate between **Graphical User Interface** (GUI) and **Command Line Interface** (CLI) operating systems.   *(2 marks)*

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(b) Give two circumstance under which **CLI** would be more preferred to GUI operating system. *(2 marks)*

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(c) Identify one feature of **GUI** operating system *(1 mark)*

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15.(a) Differentiate between **standard tool bar** and **status bar** as used in word processing *(2 marks)*

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(b) Identify three features that makes computer word processing better than type writer. *(3 marks)*

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16. Define the following terms as used in networking   *(5 marks)*

    i. Domain

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    ii. Netiquette

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    iii. Bandwidth

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    iv. Cloud computing

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    v. Web server

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17. (a) Explain the concept of **data communication**.   *(2 marks)*

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    (b) Differentiate between **bounded** and **unbounded** media   *(2 marks)*

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    (c) Give one threat of **electronic data communication**.   *(1mark)*

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18. (a) Give one circumstance under which each of the following networking device would be used *(2 marks)*

    i. **Repeater**

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    ii. **Gateway**

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    (b) Give one role for each of the following protocols. *(3 marks)*

    i. **FTP**

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    ii. **HTTP**

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    iii. **IP**

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19. Define the term **computer crime**. *(1 mark)*

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a. Identify any two **computer crimes** known to you. *(2 marks)*

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b. Give two ways you can safeguard data against the crimes above *(2 marks)*

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20. Define the term **digital forensics** as used in system security. *(1 mark)*

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a. Identify two activities involved in **digital forensics**. *(2 marks)*

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b. Explain any two challenges associated with digital forensics *(2 marks)*

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End