

Name Index No

850/1
Subsidiary Information
and Communication
Technology
PAPER 1
July/ August 2018
2½ hours

INTERNAL MOCK EXAMINATION 1

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt all questions in this paper

This paper is made up of 20 equally weighted questions.

Write in dark blue ink in the spaces provided on the question paper.

No additional materials (answer sheets) are required.

1. The advert below is used by a plumber to advertise his business

MICH'S PLUMBING
AND HEATING

All plumbing and
heating repairs carried
out

Reasonable rates
Phone: 0791184988

Describe three different ways in which the plumber could use features of a Desktop Publishing Package to make his advert more effective. 3 marks

1.
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2.
-
3.
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Give two examples of DTP software 2 marks

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2. For each of the following, state whether the device is an input device, an output device or a storage device 5 marks

Laser Printer

Scanner

Floppy Disk

Bar code reader

Speaker

3. Explain the meaning of the following terms: 5 marks

File

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Record

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Field

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Foreign Key

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Candidate Key

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4. Which three of the following are tasks carried out by the Operating System of a computer?

- A. Transferring data from the keyboard to the computer
- B. Finding a record in a database
- C. Allocating CPU (Processor) time to a task
- D. Finding a website about African animals
- E. Editing a word-processed document
- F. Managing the memory of the computer

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Write the following in full

a. GUI

b. CLI

5. It is important that data stored in computer systems is kept safe. One way in which data can be damaged in by viruses.

a. Describe two other threats to data stored on a hard disk 2 marks

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b. How can attacks by viruses be prevented? 3 marks

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6. An IT firm has branches in several towns. Each office has several computers all connected to a network. Staff at the different offices communicates by email.

a. Give two differences between a LAN and a WAN 2 marks

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b. Which type of network would be suitable within one of the offices? 1 mark

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c. The firm is considering getting a broadband connection for each of its offices. Give two reasons why they should do this rather than continuing to use ordinary dialup access through modems in each branch

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7. Data is often collected using automated methods including Optical character recognition (OCR), Magnetic Ink Character Recognition (MICR), Optical Mark Recognition (OMR), Magnetic Strip Reading and Bar Code Reading.

For each application, state which of these methods would be the best choice. Explain why it is most suitable

- a. Reading the account number on a gas bill. 2 marks

Method

Reason.....

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- b. Reading data from a cheque. 2 marks

Method

Reason.....

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What do you understand by the term EFT?

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8. Nakandi wants to go on holiday and has used a spreadsheet as a computer model to work out how much she needs to save. Nakandi has already entered all the necessary formulae to update her spreadsheet automatically.

	A	B	C	D
1				
	Item	Cost of One	Number Needed	Total Cost of Item
2	Flights	6,000,000	1	6,000,000
3	Hotel (for 1 night)	300,000	7	2,100,000
4	Evening meals	65,000	7	455,000
5	Spending money per day	200,000	7	1,400,000
6	Large travel bag	350,000	1	350,000
7	New Clothes	700,000	1	700,000
8	Special excursion	150,000	2	300,000
9			Total	11,305,000
10				
11				
12	Already Paid			
13	Still to pay			
14	Amount to save each month			

- a. The cost of the flight is reduced by 500,000. Name two cells which would change if the old value is replaced with a new change 1 mark

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- b. Write the formula in each of the following cells 1 mark

i. D2

ii. D9

- c. Nakandi has already paid for the flights and the hotel. She wants to use her spreadsheet to work out how much she needs to save each month for the next 6 months to cover the rest of the costs. Give the formulae/function needed in the shaded cells. 3 marks

i. D12

ii. D13

iii. D14

9. The health problems given below are all related to use of ICT equipment. For the problems below, state the cause and explain how the risk of the problem arising can be reduced.

- a. Headaches 2 marks

Cause

.....

.....
How risk can be reduced

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b. Repetitive Strain Injury (RSI) 3 marks

Cause

.....
How risk can be reduced

.....
10. Choose words from the list to complete the following sentences 5 marks

CD-ROM	Data Logging	ROM	Data
Hard Disk	Information	Document	Simulation
Printer	Encryption	CPU	Spreadsheet
Sensor	RAM	MICR	Justification
Modem	Scanner	Back Up	Analysis

i. Is memory that keeps its content when the computer is switched Off

ii. allows data from a computer to be transmitted along an ordinary phone line

iii. is memory that loses its content when the computer is switched off

iv. A..... can hold more data than a

v. Is Given meaning by putting it in a context.

11. Give five effective ways to prevent unauthorized access to a laptop computer 5 marks

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12. Nicholas is the manager of a sports club. The club has football, cricket, netball and hockey teams. When he needs to send a letter to members of a team he types out the letter, prints it and makes several photocopies of it to send to members.
He has a database of members and has decided that in future he will use mail merge to print the letters.

Give the advantages of using mail merge instead of photocopying the letters. **4 marks**

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c. What do you understand by a **merge field** 1 mark

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13. Complete the following sentences 5 marks

a. The action of sending emails to fraudulently obtain another person's bank details is called

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- b. The action of illegally installing malicious code which redirects a person to a fraudulent website with the purpose of obtaining that person's bank details is called

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- c. Unsolicited bulk emails are called

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- d. The action of tapping/intercepting an electronic conversation

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- e. The fraudulent practice in which communication is sent from an unknown source disguised as a source known to the receiver is known as

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