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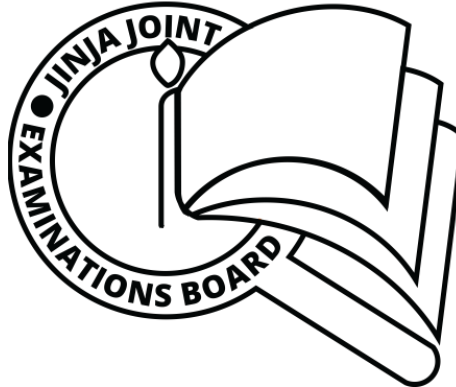
Sub ICT

Paper Two

Practical

December, 2020

$2\frac{1}{2}$ hrs



JINJA JOINT EXAMINATIONS BOARD
UGANDA ADVANCED CERTIFICATE OF EDUCATION
MOCK EXAMINATIONS

Subsidiary ICT

Paper 1

2 Hours 30 Minutes

INSTRUCTIONS TO CANDIDATES:

- (a). Attempt **ALL** questions in this paper.
- (b). The maximum time allocated to this paper is 2 hours and 30 minutes.
- (c). This paper is made up of 20 compulsory and equally weighted questions.
- (d). Write all your responses in dark blue or black ink in the spaces provided.
- (e). All answers should be written in the spaces provided. No additional material will be provided to the candidate.
- (f). Unity work will lead to automatic loss of marks.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total

1. (a). Define the term **information processing cycle**. (02 marks)
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.....
- (b). State **two** activities carried out in the data processing input stage. (02 marks)
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.....
- (c). Give **one** example of ICT use at school. (01 mark)
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2. Kato started his computer from the wall mains, turned on the system unit and then the system monitor.
- (a). Identify this type of booting process. (01 mark)
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.....
- (b). State **one** device you would advise Kato to connect in order to provide electrical security to his system. (02 marks)
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.....
- (c). Kato realized that several components were checked as the system was starting. State the component that stores all system information for this computer. (02 marks)
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.....
3. Jinja Joint Examinations Boars has supplied you with a folder containing support files for a practical test and the items are stored in different five sub – folders. You have copied the main folder into drive D of your hard drive. If the file name for a word processing document is named JJEBQN1.
- (a). How many folders are mentioned in the statement above? (01 mark)
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.....
- (b). Write down a complete file name pat for a word processing file. (02 marks)
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- (c). Suggest any **two** reasons to suggest why the examination body sent this work in a folder. (02 marks)

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4. (a). Identify **one** hardware category you would select to perform the following tasks:

- (i). A/n are used to display a softcopy from a computer. (01 mark)

- (ii). A/n is used to record data from a bar code. (01 mark)

- (b). State **two** examples of storage media that use optical technology. (02 marks)

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5. (a). State **two** functions of an operating system. (02 marks)

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- (b). Give **two** types of application programs a user would choose from to perform a specific task. (02 marks)

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- (c). State **one** advantage of using a freeware program to the user. (01 mark)

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6. (a). State the use of the following e-mail facilities:

- (i). **B.C.C.** (01 mark)

.....

.....

- (ii). **C.C.** (01 mark)

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.....

(iii). **Spam folder.** (01 mark)

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(b). My e-mail address is *dhabangipaul@jjeb.ac.ug*. Identify the following parts:

(i) **E-mail separator.** (01 mark)

.....

.....

(ii) **Second level top domain extension.** (01 mark)

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(c). Give **one** advantage of using online collaboration tools in class. (01 mark)

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7. (a). Give **two** characteristics of a peer – to – per network model. (02 marks)

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(b). Identify **one** device you would need to connect the following:

(i) *Two separate network segments with different characteristics.* (01 mark)

.....

(ii) *A private network to a public network.* (01 mark)

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(iii) *A computer onto a network grid.* (01 mark)

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8. (a). Identify **one** security threat to:

(i) **Data.** (01 mark)

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.....

(ii) **Hardware.** (01 mark)

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(b). State any **two** ethical issues in ICT today. (02 marks)

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(c). Give **one** way artificial intelligence is applied in problem solving in society today. (01 mark)

9. (a). State any **two** database objects frequently used today. (02 marks)

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(b). What is the purpose of a slide transition in a presentation program? (01 mark)

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(c). Give **two** components of a good publication. (02 marks)

10. ICT has been integrated today by government in politics, governance, climate change tracking and monitoring, among others.

(a). Give **two** dangers of using computers by government today. (02 marks)

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(b). Identify **two** ways computers have been used by government to improve service delivery. (02 marks)

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- (c). Suggest **one** way computers can be used to improve the political environment in Uganda. (01 mark)
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11. (a). Write down the procedure of sharing a folder across a computer network in a laboratory. (02 marks)

- (b). State **one** application of file management system in your computer. (01 mark)
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- (c). In a computer laboratory, files and folders are prone to damage arising from various causes. State **two** ways you would implement to ensure controlled damage to your data. (02 mark)
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12. (a). Define a **peripheral device**. (02 marks)
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- (b). Write down a specialized task that is carried out by the following CPU components.

- (i). **ALU**. (01 mark)
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-

- (ii). **Registers**. (01 mark)
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- (iii). **Control Unit**. (01 mark)
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13. (a). Select from the following list to fill in the spaces below:

Syntax, compiler, source code, debug, algorithm, compactness.

- (i). A user has to employ a to convert source code to machine language. (01 mark)
- (ii). A user has to understand a program before making software. (01 mark)
- (iii). is a characteristic of a good programming language. (01 mark)
- (b). State **two** advantages of low level programming languages. (02 marks)

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14. (a). You are given the following URL:

https://www.jumia.com/fashion/men_wardrobe/designer_watch.jpg

- (i). What will be displayed on the screen if the above address is run in the address bar? (02 marks)

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- (ii). From the address above, identify the *protocol*. (02 marks)

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- (iii). State **one** advantage of using e-commerce in your country. (01 mark)

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15. (a). State **two** components of a communication model. (02 marks)

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.....

- (b). Distinguish between a **full – duplex** and a **simplex** communication channel. (02 marks)

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- (c). Give **one** internet based tool that can be used to achieve data communication. (01 mark)

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16. (a). Write down one career opportunity that is in line with:

- (i) **Database design.** (01 mark)

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- (ii) **Desktop publishing.** (01 mark)

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- (iii) **Repairing of hardware devices like a printer.** (01 mark)

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- (b). Explain the concept of **intellectual property rights.** (02 marks)

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17. (a). In relation to use of a spreadsheet program, explain the following:

- (i) **Cell.** (02 marks)

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.....

- (ii) **Workbook.** (02 marks)

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- (b). State **one** feature residing in a word processing program. (01 mark)

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18. (a). A student made a list of hardware devices below. Classify them in the table given.

MICR, Remote Controller, TFT Monitor, LED, CPU, Flash disk.

Output	Storage	Processing

(01 mark)	(01 mark)	(01 mark)

(b). State **two** forms computer output may take. (02 marks)

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19. (a). State **two** devices you would need to connect your computer to the internet. (02 marks)

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(b). Give **two** functions of an ISP in your country. (02 marks)

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(c). Identify **one** cause of slow download speed of the internet. (01 mark)

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20. (a). Define a **utility program**. (02 marks)

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(b). Identify **one** example of a utility program that can be used to perform the following tasks:

(i) **File management**. (01 mark)

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(ii) **Add a new device to a computer**. (01 mark)

.....

(c). Give **one** major function of the control panel. (01 mark)

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END