

Name:Centre/Index No...../.....

Signature:

840/1
COMPUTER STUDIES
THEORY
Paper 1
MARCH, 2019
2½ hours

Uganda Certificate of Education
MOCK EXAMINATIONS

Computer Studies

(Theory)

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Write your name, signature, centre and index number in the spaces above.

*This Paper consists of **three** sections, **A**, **B** and **C**.*

*Section **A** contains **20 compulsory** objective-type questions. The correct alternative **A**, **B**, **C** or **D** must be written in the box provided on the right hand side of each question.*

*Section **B** contains **six compulsory** structured questions.*

*Answers to section **B** must be written in the spaces provided in the question paper.*

*Section **C** contains **three** essay type questions. Answer only **one**. Answers to section **C** must be written in the answer booklet provided.*

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MCQ	21.	22.	23.	24.	25.	26.	27.	28.	29.	Total

Turn Over

SECTION A: (20 marks)

Answer **all** questions in this section.

1. Microsoft office word is a (n).....
 - A. Area in the computer's main memory in which Microsoft office text files are stored.
 - B. Program included with windows 2000 that can be used only to create or edit text files. ☐
 - C. Classified password that prevents unauthorized users from accessing a protected Microsoft office document.
 - D. Full featured word processing program that can be used to create and revise professional looking documents easily.
2. The actual execution of instructions takes place in.....
 - A. Input unit.
 - B. ALU. ☐
 - C. Control Unit.
 - D. Output Unit.
3. The mouse, trackball and touch pad are examples of hardware devices:
 - A. gaming.
 - B. imaging. ☐
 - C. pointing.
 - D. text – input.
4. Third generation computers are known for:
 - A. artificial intelligence.
 - B. quantum computation. ☐
 - C. expert systems.
 - D. parallel processing.

5. To connect a computer to a network, a user's machine should have a(n)
- A. NIC .
 - B. RJ45.
 - C. IP.
 - D. ISP .
6.is an example of Boolean data type
- A. 001011.
 - B. \$200.
 - C. Yes/No.
 - D. 26/04/2016.
7. To login your e-mail account you should enter a:
- A. Username and access control
 - B. Password and username
 - C. Access control and password
 - D. Phone number and password.
8. The best way of keeping power distribution in a computer lab well-grounded involves use of:
- A. Surge protector.
 - B. Insulated power cords.
 - C. Power regulator.
 - D. Power supply unit.
9. Ability of a computer to run without supervision means that it is:
- A. programmable.
 - B. diligent.
 - C. versatile.
 - D. automatic.

10. is an example of a storage device.

- A. Hard disk.
- B. Flash disk.
- C. Floppy disk drive.
- D. Optical disk.

☐

11. Changing line by line high level language code to machine code is a function of a(n):

- A. linker.
- B. compiler.
- C. interpreter.
- D. assembler.

☐

12. What is the term used when you press and hold the left mouse key and move the mouse around the slide?

- A. Highlighting.
- B. Dragging.
- C. Moving.
- D. Copying.

☐

13. The following computers are classified according to the way processed data is presented except;

- A. analog computers.
- B. micro computers.
- C. digital computer.
- D. hybrid computers

☐

14. server stores and distributes documents to client computers across a network.

- A. Database.
- B. Printer.
- C. Internet.
- D. File.

☐

15. Un authorised access through a computer's firewall is termed as
- A. script kidding.
 - B. cracking.
 - C. hacking.
 - D. piracy.
16. An e-mail travels in small envelopes called:
- A. packets.
 - B. switches.
 - C. strings.
 - D. headers.
17. A determines content of a new computer program, designs user-help and procedure.
- A. computer user.
 - B. system engineer.
 - C. computer programmer.
 - D. system administrator.
18. Early computers were designed to help man during
- A. counting.
 - B. calculations.
 - C. processing.
 - D. storage.
19. The best way of controlling spread of a computer malware is by installing:
- A. user passwords.
 - B. firewalls.
 - C. antivirus utility.
 - D. a screen saver.

20. Twisted pair, coaxial cable and microwave are types of transmission

- A. chains.
- B. media.
- C. data.
- D. information.



SECTION B (60 Marks)

*Answer **all** questions in this section.*

*All the working **must** be done in the spaces provided.*

21 (a) (i) What is a printer? (01 mark)

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(ii) Identify any **two** hardware components that are controlled by a device driver. (02 marks)

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(b) (i) Mention any **two** parts that make up a computer system. (02 marks)

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(ii) State **one** function of an escape key in computer use. (01 mark)

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(c) Mention any **two** examples of pointing devices. (02 marks)

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(d) State **two** advantages of Laser jet printers over dot-matrix printers. (02 marks)

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22. (a) (i) Give **two** uses of main memory in a computer. (02 marks)

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(b) (i) List **four** examples of high level programming languages. (04 marks)

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(ii) State **one** advantage of programming in high level language. (01 marks)

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(c) State **three** biometric devices that are used in physical access control. (03marks)

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23. (a) Define the following terms as used in system analysis and design. (03 marks)

(i) Computer system

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(ii) System analyst

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(iii) System analysis

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(b) Mention any **two** stages of system development life cycle (SDLC). (02 marks)

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(c) Define the following terms as applied to presentation application software.

(i) Slide: (01 mark)

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(ii) Place holder: (01 mark)

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(iii) Action button: (01 mark)

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(d) State any **two** considerations for good presentation software (02 marks)

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(e) (i) Define the term **multimedia** as related to presentations. (01 mark)

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(ii) Give the difference between **slide** and **handout** mode printing.(02 marks)

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24. (a) (i) Define the term **computer crime**. (01 marks)

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(ii) Mention any **three** examples of computer crime. (03 marks)

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(b) (i) State any **two** ways of controlling the effects of computer crime. (02 marks)

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(ii) Give **one** reason for servicing your computer set. (01 mark)

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(c) (i) What is a **cybercrime**? (01 mark)

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(ii) State any **two** security risks computer users have to observe. (02 marks)

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25. (a) (i) Give the difference between **Bcc** and **Cc** as used in e-mails. (02 marks)

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- (ii) State any **two** disadvantages of attaching documents to an e-mail. (02 marks)

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- (b) Write the following in full: (04 marks)

(i) FTP

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(ii) SMTP

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(iii) TCP/IP

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(iii) IPX/SPX

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- (c) Mention any **two** examples of network operating system software. (02 marks)

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26. (a) (i) Give **two** advantages of using a primary key in a database. (02 marks)

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- (ii) State any **two** examples of data types recognized by a database. (02 marks)

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(b) state any two popular database management software mostly used in Uganda
(2marks)

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ii) Define the following terms as related to databases (4marks)

i) Field

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ii) Record

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iii) Table

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iv) Query

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SECTION C: (20 Marks)

*Answer only **one** question from this section.*

Answers are to be done on the answer sheets provided.

27. Using any programming language, design two programs; one calculating the area of a circle and another is to be used by the director of studies to find the final students' marks for the three examinations, that is BOT (beginning of term), MOT (midterm) and EOT (end of term) entered at the keyboard. Note: **final mark** is the average of the three exams. (20 marks)

28. (a) Define the term **computer network**. (02 marks)
(b) With an illustration describe a client- server model of computer network.

(04 marks)

- (c) State any **seven** (7) networking hardware, explain how each is used in the course of networking computers. (14 marks)

29. (a) You are provided with a UPS, power extension socket, LCD monitor, system unit, key board, mouse, 3 power cables, a VGA cable. You are required to setup the computer system in order to start using it. Explain how each component is connected in order for the computer system to function properly. (12 marks)
- (b) Outline the logical order of switching on the computer system assembled in (a) above. (08 marks)

END

