Name……………………………………………………… Personal No………………………….

Signature…………………………………………………..

**840/1**

**COMPUTER STUDIES**

**(Theory Paper)**

**Paper 1**

**Uganda Certificate of Education**

COMPUTER STUDIES

(Theory Paper)

**Paper 1**

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

* *Write your name, school and index number in the space provided.*
* *This paper consists of* ***three*** *sections* ***A****,* ***B*** *and* ***C***
* *Section* ***A*** *consists of* ***20*** *compulsory objective questions. The correct alternative* ***must*** *be written in the box provided on the right.*
* *Section* ***B*** *contains* ***six*** *compulsory questions. Answers* ***must*** *be written in the spaces provided in the question paper.*
* *Section* ***C*** *has* ***three*** *Essay type questions. Answer only* ***one*** *question on the booklet provided.*

**Turn Over**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MCQ** | **Q21** | **Q22** | **Q23** | **Q24** | **Q25** | **Q26** | **Q27** | **Q28** | **Q29** | **T.T** |
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**SECTION A**

1. Backup of data helps to prevent

 A. duplication of data

 B. virus infection

 C. data redundancy

 D. loss of confidentiality

2. …………………. is the checking of input data in a database for erros.

 A. Range check

 B. Consistency check

 C. Data validation

 D. Integrity check

3. The group of commands available to the CPU which determine the basic computer operations that can be performed are called ………………..

 A. instruction set

 B. operating system

 C. hard disk

 D. ROM BIOS

4. …………………. is the first stage in software development

 A. System analysis

 B. Testing

 C. Maintenance

 D. Specification and design

5. What networking device transmits data signals through the shortest route in a network?

 A. Hub

 B. Repeater

 C. Router

 D. MODEM

6. Isaac switched on the monitor from the wall socket but it failed to display. This happened because ………………

 A. the monitor was attached by a virus

 B. the VGA cable was loosely connected to the system unit

 C. the keyboard was not connected

 D. the UPS was not turned on

7. One advantage of terminations in programming is

 A. to help assign a data type

 B. to start a new line

 C. to end a program

 D. to help define the characters

8. The software utility that contains a single file or stream of files and folders is referred to as;

 A. archive

 B. a disk partition

 C. a file manager

 D. a file viewer

9. The standard for the connection of peripherals to personal computers were a device only needs to be connected to the computer in order to be configured is referred to as

 A. USB connection

 B. plug and play.

 C. serial connection

 D. parallel connection

10. The component of the operating system that provides the ability to schedule the launch of programs or scripts to predefine times is found under?

 A. Accessories

 B. Windows directory

 C. My computer

 D. System tools

11. The ……………… is the software that allocates web resources to various internet users

 A. Web servers

 B. Client

 C. Domain name server

 D. Network terminal

12. Which of the following programming tools combines a compound program and determines where it will be found in the computer’s memory?

 A. Linker

 B. Assembler

 C. Interpreter

 D. Compiler

13. The ……………… is the unit of data that is routed between a host and a client on the internet.

 A. Byte

 B. Packet

 C. Signal

 D. Bit

14. A flat file data base is one that

 (i) has multiple tables each having a separate file

 (ii) stores data in a plan text file

 (iii) has more than one table related

 (iv) structured to recognize relations between stored items

1. (i) and (ii)
2. (i), (ii) and (iv)
3. (iv) only
4. (ii) and (iii)

15. ……………….. is the portion of free space on the hard disk used in image editing programs to temporarily store graphic file.

 A. Cache

 B. Scratch disk

 C. Virtual memory

 D. Disk partition

16. A signal created and sent to the CPU that is caused by some action taken by a hardware device is ……………..

 A. dead locks

 B. configuration

 C. hardware interrupt

 D. task scheduling

17. The word processing feature that establishes the number of words, characters and paragraphs in a document is ………………….

 A. template

 B. word count

 C. thesaurus

 D. word wrap

18. The process of finding and fixing errors in a computer device is called ……………….

 A. re bugging

 B. scanning

 C. trouble shooting

 D. executing

19. An Ipad is classified as a ………………..

 A. micro computer

 B. main frame computer

 C. mini computer

 D. super computer

20. Disk partitioning in a computer is done in order to …………………

 A. arrange files in a computer

 B. create more logical drives

 C. free up storage space

 D. clean the hard disk

**SECTION B**

21. (a) Differentiate between sequential instructions and conditional instructions.

 (02 marks)

 …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

 (b) State the function of the following terms.

 (i) loader (01 mark)

 …………………………………………………………………………………………………………………………………………………………………………………………

 (ii) interpreter (01 mark)

 …………………………………………………………………………………………………………………………………………………………………………………………

 (c) (i) List any four system management programs. (04 marks)

 …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

 (ii) State any two factors that can be considered when selecting an application packages. (02 marks)

 …………………………………………………………………………………………………………………………………………………………………………………………

22. (a) Define the term intellectual property rights. (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (b) Explain three intellectual property rights used for software. (06 marks)

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 (c) State two ways of safeguarding against software related crimes. (02 marks)

 ……………………………………………………………………………………………

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23. (a) State the relevance of the following as used in presentation software

 (i) Task pane (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (ii) Slide sorter view (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (iii) Transition loop (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (b) (i) List two examples of presentation programs. (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (ii) List two qualities of a good presentation. (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

24. (a) Differentiate between a domain name and an Ip address. (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (b) Explain the importance of the following terms.

 (i) Web server (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (ii) Hyper link (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (c) (i) State any three services provided by the internet service provider.

 (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 …………………………………………………………………………………………….

 (ii) Give one example of ISP. (01 mark)

 ……………………………………………………………………………………………

25. (a) Define validation in database management system. (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (b) List the four steps involved in creating a database. (04 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

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 …………………………………………………………………………………………….

 (c) (i) When is lookup wizard used in a database management system? (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (ii) List down any two other data types used in database. (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

26. (a) Define the term computer program. (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 (b) State three features of a computer program. (03 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

 …………………………………………………………………………………………….

 (c) List three advantages of high level programming languages over low level programming languages. (03 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

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 …………………………………………………………………………………………….

 (d) List two reasons for system analysis during program design. (02 marks)

 ……………………………………………………………………………………………

 …………………………………………………………………………………………….

**SECTION C**

27. As a computer a studies student, describe the current opportunities available to you in the field of computing. (20 marks)

28. (a) With examples where necessary, describe the various forms of computer output.

 (16 marks)

 (b) Outline any four advantages of monitor output over printer output. (04 marks)

29. Explain 10 end-user application programs available on market today. (20 marks)

***END***