NAME:_____**STREAM:**_____

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PRE-MOCK EXAMS 2018
S.4 COMPUTER STUDIES 840/1
Theory Paper.
TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS TO CANDIDATES:

- *Write your **NAME**, **SIGNATURE** and **STREAM** 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 first page. Only the final choice of alternative should be written. Unclear and crossed out work will NOT be marked.*
- *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 equally weighted essay questions. Answer only one.*
- *A plan for the Section C number you have attempted should be made on the page containing Section C questions. Answers to Section C must be written in the answer sheets provided.*

Answers to Section A.

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

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MC Q	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

NAME:_____STREAM:_____

SECTION A

1. The word processing feature used to address a document to many recipients at ago is;
   A. Mail box B. word wrap C. mailing list D. mail merge

2. The arrangement of element in a presentation application such as title and subtitle text, pictures, tables is called slide……
   A. Layout B. show C. design D. scheme

3. The high speed memory unit between the central processing unit (CPU) and main memory is……..
   A. CMOS B. RAM C. Buffer D. Cache

4. A utility that tests the malfunctions of computer hard ware and software is a ……..program
   A. Diagnostic B. scan disk C. sorting D. defragmentation

5. Machine and assembly languages are referred to as……..
   A. Third generation languages C. system languages
   B. Low level languages D. high level languages

6. A user interface in computer is interaction between;
   A. A printer and a computer C. programs in the computer
   B. A person and a computer D. a digital camera and a computer

7. The process of finding errors and fixing them with in a program code is called?
   A. Compiling B. Executing C. scanning D. debugging

8. In the period of mechanical computers, machines were characterized by;
   A. Semi-conductor devices C. gears and wheels
   B. Transistors and vacuum tubes D. integrated circuits

9. Computers that measure continuous variables are categorized as;
   A. Integrated B. hybrid C. digital D. analog

10. Which one of the following is not a function of spreadsheet application?
    A. Accounting B. spell checking C. what if analysis D. data management

11. In databases, data can be organized in terms of……..
    A. Characters B. records C. modules D. pages

12. A person who write lines of codes of a computer software is a……..
    A. Programmer B. system analyst C. technician D. system administrator

13. A desktop computer is classified as a……
    A. Super computer B. main frame C. Microcomputer D. mini computer

14. When installing an operation system, you can partition a new hard disk during…….
A. Debugging B. formatting C. defragging D. booting

15. The process of comparing data entered in a database with a set of predefined rules to check if that data is acceptable is known as
A. Verification B. Validating. C. Sorting. D. Querying.

16. One of the image file formats used when working with pictures in web designing is……...
A. JPEG B. HTML C. PPT D. MP3

17. Which of the following affects communication speed on the Internet?
A. Size of the hard disk . C Floppy drive.
B. Size of the Band width. D. Screen resolution.

18. A set of rules and regulations that govern communication between a client and server computer is…….
A. Topology B. network C. protocol D. band

19. A modem is a.
A. Word processor B. web browser C. storage device D. communication device

20. The following are basic principles of maintaining information security in organizations except…..
A. Flexibility B. confidentiality C. availability D. integrity

SECTION B: (60 MARKS)
Answer all questions in this section

21. (a) State a reason for each of the following characteristics of the first generation computers.
i. They were very expensive. ***(02 marks)***
They were very scarce.
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……
ii. They generated a lot of heat
Vacuum tubes used generated a lot of heat
It had many mechanical moving parts that generated a lot of heat in the process.
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……

(b) Omamure suspects his laptop to be carrying a computer virus because it has reduced its functionality speed. He however chooses to continue using it without

servicing because it still functions anyway. Define the term computer virus.

(02 marks)

- *This is a malicious software that is designed to affect the normal functioning of computer.*
- *This is a malicious software program loaded onto a user's computer without the user's knowledge and performs malicious actions such as duplication of files.*
- *It is a type of malware that, when executed, replicates itself by modifying other computer programs and inserting its own code*

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(c) Give **two** possible risks that Michael is exposed to. ***(02 marks)***

(i) spam messages being automatically sent to people due to mass mailer viruses.

(ii) computer hard disk crushing due to replication of files.

(d) As a computer science student, explain any **two** safe computer practices to guard against computer viruses.

(02 marks)

(i)

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(ii)

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(e) Give any **two** characteristic features of a modern computer. ***(02 marks)***

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22. (a) What is a peripheral device in the area of computer?

(02 marks)

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(b) Give four categories of computer hardware devices. **(04 marks)**

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(c) Outline four situations under which a computer user can carry out warm booting. **(04 marks)**

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23. Study the spreadsheet below and answer questions a-c

	A	B	C	D
1	**Students' name**	**Gender**	**Total score**	**Comment**
2	Clare	F	230	
3	Moses	M	340	
4	Isma	M	320	
5	Madina	F	210	
6	Trica	F	255	
7	Solomon	M	199	
8	Katrina	F	365	

(a) Identify spreadsheet features to perform the tasks below;

(i) Arrange data in ascending order basing on gender

Sorting

(ii) Display only female students in the table

Filtering

(b) Write an IF function statement that will return a comment REPEAT for students whose total score are below 200 and PROMOTION for those total scores are above or equal to 200.

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……

(c) State a function that would return the highest total score

MAX function.

(d) (i) Define a database management system

This is a software package designed to* create*, manipulate, retrieve and manage data in a database.

(ii) Name one activity where data base management system can be applied.

……

……

(e) Give the database objects that are specifically used for;

(i) Entering data in the table

Form

(ii) Retrieving particular information from a database

Query

24. (a) Define the following terms in relation to computer communication and give an example in each case.

(06 marks)

(i) Simplex

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Example

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(ii) Full duplex

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Example

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(b) Computers can be used in business transactions over the internet.

Give three advantages and one disadvantage of using this method. **(04 marks)**

Advantages

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Disadvantages

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25. (a) Distinguish between wrap text and word wrap features as used in word processor. **(2 marks)**

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(b) Give three advantages of using word processing software over a manual typewriter. **(03 marks)**

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(c) Explain why sound may be added to a presentation. **(02 marks)**

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(d) What is a slide master as used in a presentation? **(02 marks)**

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(f) Give an example of a presentation program. **(01 mark)**

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26. (a) (i) Distinguish between packaged software and tailored software. **(01 Mark)**

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(b) List any two examples of utility programs. **(02 marks)**

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(c) Identify the stages of system development life cycle. **(05 marks)**

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(d) identify any two major roles of a system analyst during the system development lifecycle.

(02 marks)

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SECTION C:
Answer any one question from this section

27. (a) Describe how a laboratory technician would help a user when the following error messages appear.

(10 marks)

(i) Non-system disk when the computer is switched on
(ii) Low disk space and computer is low
(iii) Access denied when a user wants to access a particular file
(iv) Out of memory
(v) Device not ready

(b) Adana bought a new laptop computer and installed a number of software. She uses the laptop to get access to the internet. After a few months, her laptop started to slow down and sometimes it would hung. Explain five reasons why her laptop started to become slow.

(10 marks)

28. (a) Explain the following terms as used with programming.

(04 marks)

- ✓ Variable
- ✓ Syntax

(b) write a C program code that can add and multiply two given values and displays the results.

(16 marks)

29. Describe any ten cybercrimes you know.

(20 marks)

END