Names:.....**Index**:.....

School Exam Number:.....**Signature**:.....

*Candidates should**NOT** writetheir Centre Name or Centre Number anywhereon this booklet*

840/1
COMPUTER STUDIES
Paper1
2023
2½ hours

FACILITATION EXAMS SET 3 2023

S.4 COMPUTER STUDIES

COMPUTER EDUCATION THEORY

PAPER

2hours 30minutes

INSTRUCTIONS TO CANDIDATES:
Write your name in the spaces above.

This paper is made up of **three** Sections*:* **A**,**B** *and* **C** *respectively.*

Section **A** *contains **40 compulsory** objective-type questions .Write your best alternative :***A, B, C** *or* **D,** *in the box provided.*

Section **B** *contains **four compulsory** structured questions. Answers must be written in the spacesprovided.*

Section**C***ismadeupof* **three***questions.Attemptonly***one***questiontobewritteninthe answerpagesprovided.*

	FOREXAMINER'SUSEONLY									
MCQ	**Q21**	**Q22**	**Q23**	**Q24**	**Q25**	**Q26**	**Q27**	**Q28**	**Q29**	**TOTAL**

SECTIONA: (20MARKS)

1. Which one of the following tools would be the best for cleaning the outer surface of a monitor?
   A. Dust blower
   B. Form cleaner
   C. Pliers
   D. Screw driver.
2. At what stage of the following stages would flow chats be used in the programming process?
   A. Testing stage
   B. Design stage
   C. Program coding stage.
   D. Implementation stage.
3. Computer errors reporting to the user is a preserved function of.....
   A. Application software platforms
   B. Operating system software
   C. System utilities
   D. Network administrator.
4. Which one of the following memory units is usually provided in system peripheral units?
   A. Buffer memory
   B. Cache memory
   C. BIOS
   D. Virtual memory.
5. Which one of the following roles is the main function of a software interface?
   A. Storage of information
   B. Enable the user to interact well with the software
   C. Warning the user in cases of danger
   D. Outputting data
6. The computer system maintains it configurations like date and time right even when the system is switched off from the main power source because of its?
   A. CMOS
   B. RAM
   C. Automation
   D. CMOS battery
7. A single structure representing a set of related data in a database table is referred to as.....
   A. Field
   B. Report
   C. Record
   D. Query

8. The standard protocol for Internet related electronic mails is.....
A. TCP/IP
B. OSI
C. SMTP
D. NOS
9. Which one of the following data transmission media would offer a user the least data through-put?
A. Twisted pair
B. Optical fiber
C. Coaxial
D. Microwave
10. An active cell of a spreadsheet can easily be identified by?
A. Name box
B. Formulae bar
C. Worksheet tab
D. Worksheet charts
11. Which one of the following document processors is a word processor engine?
A. Note pad
B. Word wrap
C. WordPad
D. Lotus
12. The power-on self-test (*POST*) is run by...
A. BIOS.
B. Operating system
C. Log-on
D. Boot strap loader.
13. .....is a web page that allows users to make adjustments in the content previously uploaded.
A. Blog
B. Wiki
C. Aggregator
D. News group
14. Which one of the following statements is true about data values when they appear in a spreadsheet cell?
A. They are dressed in inverted quotation marks in logical functions
B. They usually left aligned by default
C. They are usually followed by a comma
D. They are usually right aligned in a cell by default
15. Which one of the following is not a navigation tool of slides during a presentation
A. Hyperlink
B. Action button
C. Remote sensor
D. Slide master.

16. Which one of the following word processor proof reading tools would enable a user to quickly replace some words in a document with other words?

A. Autocorrect
B. Autocomplete
C. Spelling and grammar checker
D. Thesaurus.

17. Which one of the following measures would ensure that changes made on the parent's table are reflected on the child table?

A. Entity integrity
B. Referential integrity
C. Validity integrity
D. Primary key

18. When computers are classified as digital or analog it means that they are being classified basing on…….

A. Physical size
B. Specialty
C. Process
D. Processor power

19. In the mechanical era computers used …….. for their internal operations.

A. Integrated circuits
B. Diodes
C. Vacuum tubes
D. Gears

20. Which one of the following utilities would one use to prepare a storage media for data storage?

A. Formatting
B. Debugging
C. Anti-virus
D. Backup

SECTIONB (60MARKS)

This Section *consists of* **six** *questions.*
Answer **ALL** *questions and fill your answers in the spaces provided.*

21. (a) (i) Distinguish with examples between ***Analog computer*** from ***digital computers*** ? ***(02marks)***

……..……

……..……

……..……

(ii)State ***two*** main differences between digital and analog computers. ***(02marks)***

Digital computers	**Analog computer**

(iii) Distinguish between ***Data*** from ***Information***? ***(02marks)***

…..……..……

……..…….……

(b) i. State ***two*** ways of safe guarding Data and Information stored on a computer system. ***(02marks)***

……..…..…….……

……..…..…….……

(ii) a) Distinguish between ***Expert System*** from ***Artificial Intelligence***. ***(01marks)***

……..…..…….……

……..…..…….……

……..…..…….……

b) State any ***one*** examples of the following. ***(01marks)***

i) Individuals that interact with expert system.

……..…..…….……

ii) ***Artificial Intelligence***

……..…..…….…….

22. (a) (i)Define the term ***hardware configurations***. ***(02marks)***

……..…...……..……

……. ……...…...……..……

(ii) Define the following giving examples in each case.

(02marks)

Bus from **port**

……..…...……..……

……..…...……..……

Examples of Bus

……..…...……..……

Examples of port

……..…...……..……..…

(iii) Distinguish between ***System case*** *from* ***System units***

(02marks)

……

……

……

(v) State any ***two*** components of system units ***(02marks)***

……

……

(b) (i) State any one Causes of the computer failure to boot up?

(1mark)

……

……

(ii) Distinguish between system failure from System freeze. ***(2marks)***

……..…

……

23 a) In relation to database, define the following terminologies

i. Database software. ***(01 mark)***

……

……

ii. Data base management system. ***(01 mark)***

……

……

b) (i) List ***two*** examples of data base management software.

(01marks)

……

……

(ii) State any ***two*** factors to consider before designing a database.

(02marks)

……

……

……

Define the following as used in spread sheet software. ***(02 marks)***

(i) Formula.

……..……

……...

(ii) A function.

……..……

……..……

(iii) Name ***two*** different operations, which you would expect in a spreadsheet cell.. ***(02 marks)***

…...……

……..

State one types of entries / data entered in spread sheet.

(01marks)

…...……

……..

……

24. (a) Distinguish between Standalone from networked computer. ***(02marks)***

……

……

……

(i) State two factors considered before installing computer networks

(02marks)

……

……

(ii) Mention two types of cable data transmission. ***(02marks)***

……

……

(b)i Why is it not good to have a lot of graphics on a webpage?

(01marks)

……

……

(ii) List two components of webpage ***(01marks)***

……

……

(iii) Explain the following terms related to internet. ***(02marks)***

Cookies

……

……

Search engine

……

……

25. (a) State any ***two*** navigation tools for a word document.

(02marks)

……

……

(b) (i) Explain any two the advantages of using word processor than a Mechanical type writer? ***(02marks)***

……

……

……

(ii) Write short notes on the following. ***(02marks)***

a) Save and Save as.

……

……

b) Proofreading and Text editor.

……

……

(**c**) i. State the meaning of the following presentation software features? ***(02marks)***

Place holder

……

……

Slide transition.

……

……

ii. Give any ***two*** importance of using presentation during communication.

(02marks)

……

……

26. (a) Distinguish between **off the shelf** *from* **customized Software** **(*02marks)***

……

……

(b) (i) List two ways of obtaining application software. ***(02marks)***

……

……..……..……..……

(ii) Sate any two characteristics of a failed operating system.

(02smarks)

……

……..……..

(c) (i) State any two functions of utility programs in a computer. ***(01marks)***

……

……..……

(ii) Give the function of the following software development tools.

(03mark)

a) Algorithm

……

……..……..…

b) Flow chart.

……

……..……..…

c) Assembler.

……

……..……..…

SECTION C: (20Marks)

Answer only one question from this section
Answers to the question must be written in the answer booklet provided.

27. (a) The growth of information technology is greatetly depends on ict tools and internet. As a computer student, describe the implications of intenet in the world of ict today. (20marks)

28. Mention and explain any 10 professions and career paths in the field of computing and Information Technology. (20marks)

29. a) Explain five problems that affect normal operations of a computer system. (10marks)

b) Suggest five solutions to the problems identified in question 28 (a) above. (10 marks)

END