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840/1
COMPUTER STUDIES
(Theory)
Paper 1
Jul/Aug 2018

$2\frac{1}{2}$ hours

MUKONO-KAYUNGA JOINT MOCK EXAMINATIONS BOARD

Uganda Certificate of Education

COMPUTER STUDIES

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO STUDENTS

Write your name, signature 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 questions. Answer only* **one**. *Answers to section* **C** *must be written in the answer booklet provided.*

Any additional question(s) answered will **not** *be marked.*

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MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

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SECTION A: (20 MARKS)

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

1. Which of the following is a primary input device to a computer?
   A. scanner
   B. mouse
   C. keyboard
   D. digital camera

2. One way of protecting the information on a computer is……
   A. defragmenting the disk
   B. formatting the disk
   C. sorting the data on the disk
   D. backing up the data onto different media

3. Which of the following devices can be used to convert an image or text on paper documents into electronic format that a computer can display, print and store?
   A. printer
   B. scanner
   C. OCR
   D. CD-ROM

4. The option which enables one to name a document and store it on a storage device using another name is
   A. Save
   B. Save As
   C. New
   D. Copy

5. A workbook is a:
   A. publication
   B. data type entry
   C. range of cells
   D. collection of worksheets in a single file

6. Formatting a disk does one of the following
   A. makes the letters bold
   B. changes the font type
   C. erases the content
   D. increases the content

7. A problem that is most likely to occur dur to future advancement of computer is
   A. under development
   B. under population
   C. unemployment
   D. insecurity

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. Changing high level language to machine code is a function of a(n)
   A. Linker
   B. Compiler
   C. Interpreter
   D. Assembler

10. URL stands for
    A. Uniform Resource Locator
    B. Universal Resource Link
    C. Web publishing software
    D. An email

11. Which drive letter usually represents the hard drive?
    A. A:
    B. B:
    C. C:
    D. D:

12. Which of these factors does not affect internet speeds?
    A. bandwidth
    B. type of media
    C. traffic
    D. world wide web

13. The scientific milestone of using integrated circuit (IC) was a characteristic of the
    A. First generation
    B. Second generation
    C. Third Generation
    D. Fourth generation

14. Rights enforceable by the law accorded to a developer of software is called
    A. copyright
    B. patent right
    C. trade secret right
    D. trademark

15. This networking protocol does not relay information out of a LAN.
    A. HTTP
    B. TCP/IP
    C. TELNET
    D. NETBEUI

16. In……software, a field is the entire column that contains similar data.
    A. word processor
    B. database
    C. spreadsheet
    D. presentation

17. In a computer system, the system clock is very important because it……
    A. is a storage device
    B. shows the time and date
    C. determine data process speeds
    D. turns off the computer after a long time

18. The primary purpose of presentation software is to……
    A. creates awareness, documents, letters and reports
    B. design, create and edit slides for overheads
    C. creates and edits graphics
    D. creates newsletters, brochures and booklets

19. Computer programs used in tasks such as removal of viruses or data compression can be categorized as
    A. programming language
    B. Utility programs
    C. application software
    D. compiler

20. The internet offers different services. Which one listed below is incorrect?
    A. chatroom
    B. electronic mail
    C. offline shopping
    D. world wide web

SECTION B (60 MARKS)

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

All answers must be written in the spaces provided.

21. a) List three major characteristics of the fourth-generation computers. *(3marks)*

(i) ……

(ii) ……

(iii) ……

b) Explain the following terms in relation to computer usage.

(i) Hacking *(2marks)*

……

……

(ii) Computer crime *(2marks)*

……

……

c) Mention three ways for preventing computer crime. *(3marks)*

(i) ……

(ii) ……

(iii) ……

22. a) Define the following presentation software terms.

(i) Master layout *(2marks)*

……

……

……

(ii) Slideshow *(2marks)*

……

……

……

(iii) Slide sorter view *(2marks)*

……

……

……

b) Give any four tasks where using a word processor is most appropriate. *(4marks)*

(i) ……

……

(ii) ……

……

(iii) ……

……

23. a) (i) What is computer communication? *(2marks)*

……

……

……

(ii) State any two advantages of using emails. *(2marks)*

……

……

……

b) Explain the functions of the following:

(i) Web server *(2marks)*

……

……

(ii) FTP *(2marks)*

……

……

(iii) HTTP *(2marks)*

……

……

24. a) Differentiate between computer hardware and software. *(4marks)*

	Hardware	**Software**
(i)		
(ii)		

b) List any four internal components of computer hardware. *(4marks)*

(i) ……

(ii) ……

(iii) ……

(iv) ……

c) Give two examples of computer application software. *(2marks)*

……

……

25. Below is a database for Katunda's Computer Engineering Company. Use it to answer the questions that follow.

ID_No	SurName	Department	DoB	MarriageStatus	Salary
STK001	Tabula	Information	22/09/2017	NO	3,240,000
STK002	Katunda	Administration	28/02/1986	YES	5,360,000
STK003	Ssegguja	Computing	10/08/1993	YES	3,000,000

a) What criteria can be used to retrieve all records of employs who were born after the year 2000? *(2marks)*

……

b) (i) Which field stores Boolean data? *(1mark)*

……

(ii) Give one reason why this data type is used. *(2marks)*

……

……

c) (i) How many records are in the database above? *(1 mark)*

……

(ii) Apart from text data-type, what other data type can be used in the field ID_No? *(1mark)*

……

d) (i) Suggest a suitable primary key for the database? *(01mark)*

……

(ii) Give a reason for your answer in d) (i) above. *(2marks)*

……

……

26. a) State any four functions of an operating system. *(4marks)*

(i) ……

(ii) ……

(iii) ……

(iv) ……

b) List any two types of operating systems commonly used in computers. *(2marks)*

(i) ……

(ii) ……

c) (i) What is a programming language? *(2marks)*

……

……

……

(ii) Differentiate between machine language and high-level language. *(2marks)*

……

……

……

SECTION C (20 MARKS)

Answer only **one** *question from this section. Answers are to be done in the answer booklet provided.*

27. Some people believe that advancement in computer technology will cause unemployment while others believe that the economic survival of a society depends on making even greater use of the computer.

    Describe how computers can;

    a) cause unemployment. *(10 marks)*

    b) be the basis of economic survival. *(10 marks)*

28. a) Define the term network topology. *(04 marks)*

    b) With illustrations, explain any four network topology types clearly pointing out the major components needed in the setup. *(16 marks)*

29. a) Outline the logical order of switching on the computer system, given it consists of a UPS, System Unit, Monitor, keyboard and mouse and are all disconnected. *(08 marks)*

    b) Describe six conditions that necessitate warm booting of a computer. *(12 marks)*

END