

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

Signature: .....

840/1

**COMPUTER STUDIES**

**Paper 1**

**Oct./Nov. 2012**

2½ hours



**UGANDA NATIONAL EXAMINATIONS BOARD**

**Uganda Certificate of Education**

**COMPUTER STUDIES**

**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 questions. Answer only **one**. Answers to section **C** must be written in the answer booklets provided. Any additional question(s) answered will **not** be marked.*

**For Examiners' Use only**

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

### SECTION A: (20 MARKS)

*Answer all questions in this section.*

1. In which computer classification does a Personal Digital Assistant (P.D.A.) belong?  
A. Size. B. Process. ☐  
C. Purpose. D. Processor power.
2. Which of the following is associated with visual slides, animated shows and overheads?  
A. Databases. B. Spreadsheets. ☐  
C. Graphics. D. Presentations.
3. A .....is a software that provides an interface between the user and the Internet.  
A. Gopher B. Server ☐  
C. Web browser D. Web page
4. The .....is responsible for the mathematical and comparison sequences in the CPU.  
A. main memory B. control unit ☐  
C. Arithmetic and Logic Unit D. micro processor
5. The scan disk process is categorized as a(n) .....  
A. application software. B. operating system. ☐  
C. programming language. D. utility program.
6. Calculate the number of bits in 16 bytes.  
A. 8. B. 2. ☐  
C. 64. D. 128.
7. What software can be used to browse the Internet?  
A. Netscape. B. Ms Access. ☐  
C. Power point. D. FTP.
8. A collection of related data items that a DBMS treats as a unit is a .....  
A. record. B. file. ☐  
C. field. D. folder.
9. The introduction of the first super computers is a characteristic of .....  
A. first generation. B. second generation. ☐  
C. fourth generation. D. fifth generation.
10. The use of functions to manipulate data is a facility of .....  
A. database. B. presentations. ☐  
C. spreadsheets. D. communications.

11. A Uniform Resource Locator is used to .....  
A. browse the Internet. B. find a particular website.  
C. download information. D. design websites on the Internet. ☐
12. A(n) ..... is an example of a wireless type of transmission media.  
A. twisted pair B. co-axial  
C. microwave D. optical fibre ☐
13. The ability of a computer to run many jobs at the same time is called.....  
A. Multitasking. B. flexibility.  
C. versatility. D. diligence. ☐
14. A flash memory is an example of a(n) ..... device.  
A. processing B. storage  
C. input D. output ☐
15. What is an operating system?  
A. The part of **hardware** that operates input and output devices.  
B. The part of **hardware** that operates the mouse and the window on the monitor.  
C. Systems **software** that manages computer system resources.  
D. A section of **software** that must be part of every program. ☐
16. Which of the following programs are **not** typically included in a Microsoft Office Suite?  
A. Presentation programs B. Financial programs.  
C. Spreadsheet programs. D. Database programs. ☐
17. Which one of the following devices produces a soft copy as its output?  
A. Display screen. B. Plotter.  
C. Robot. D. Laser printer. ☐
18. Small pictures that represent commands in a graphics interface are.....  
A. icons. B. cursors.  
C. symbols. D. graphics. ☐
19. If you wanted to "window shop" on the Internet, you would visit a .....  
A. chat group. B. gopher.  
C. telnet. D. cyber café. ☐
20. The computer ethical issue that deals with the responsibility of controlling the availability and use of data is .....  
A. access. B. accuracy.  
C. ownership. D. privacy. ☐

## SECTION B: COMPULSORY (60 MARKS)

Answer **all** questions in this section. All answers **must** be written in the spaces provided.

21. (a) (i) What is word processing? (02 marks)
- .....
- .....
- .....
- .....
- (ii) Mention **three** examples of word processing software. (03 marks)
- .....
- .....
- .....
- (b) Describe **three** ways in which personal data stored on a computer can be misused. (03 marks)
- (i) .....
- (ii) .....
- (iii) .....
- (c) State **two** ways of preventing misuse of personal data stored on a computer. (02 marks)
- (i) .....
- (ii) .....
22. (a) Distinguish between **application programs** and **system software**. (02 marks)
- .....
- .....
- .....
- .....
- (b) Give **two** examples of application programs. (02 marks)
- .....
- .....



(c) System software are normally grouped into **three** categories. State the **three** categories. (03 marks)

(i) .....

(ii) .....

(iii) .....

(d) Mention the functions of each of the categories in (c). (03 marks)

(i) .....

(ii) .....

(iii) .....

23. (a) Define a computer network. (02 marks)

.....

.....

.....

.....

(b) Distinguish between a **LAN** and a **WAN**. (02 marks)

.....

.....

.....

.....

(c) Name any **three** types of network topologies. (03 marks)

(i) .....

(ii) .....

(iii) .....

(d) State any **three** requirements for connecting a computer to Internet. (03 marks)

(i) .....

(ii) .....

(iii) .....

24. A car showroom owner uses a spreadsheet to store data about cars he sells. The table below shows part of the spreadsheet.

	A	B	C	D	E
1	Registration	Previous	Buying	Selling	Profit
2	Number	Owners	Price	Price	
3					
4	KUP 315	1	£3900	£4400	£500
5	ZAS 546	2	£3500	£3900	£400
6	TRU 234	1		£3450	£750
7	BWA 456	4	£1950	£2200	£250
8	Average			£3487.5	
9					

- (a)

How many columns are there in this part of the spreadsheet?

(01 mark)

.....
- (b)

Circle one cell on the spreadsheet that contains text data.

(01 mark)

.....
- (c)

What type of alignment is being used in cell B4?

(01 mark)

.....
- (d)

What data type was used in cell D6?

(01 mark)

.....
- (e)

The owner of the car showroom wants to calculate the total profit of these four cars. What formula should he type in cell E9?

(01 mark)

.....
- (f)

Write down the formula which was used to obtain the figure in cell E4.

(01 mark)

.....
- (g)

(i)

What formula would be used to obtain the entry for cell C6?

(01 mark)

.....

(ii)

Write the entry for the cell C6.

(01 mark)

.....
- (h)

(i)

What formula can be used to calculate the average buying price?

(01 mark)

.....

(ii) What is the average price in C8? (01 mark)

.....

25. (a) "The storage capacity of my computer is 25GB." Explain the statement. (02 marks)

.....

.....

.....

(b) Mention **two** advantages hard disks have over flash disks. (02 marks)

(i) .....

.....

(ii) .....

.....

(c) Why are computer games and other programs commonly supplied on CD-ROMS? (Give **two** reasons) (02 marks)

(i) .....

.....

(ii) .....

.....

(d) (i) What are **Impact printers**? (01 mark)

.....

.....

**Laser printers**? (01 mark)

.....

.....

(ii) Give **one** advantage and **one** disadvantage of a laser printer over a dot matrix printer. (02 marks)

Advantage: .....

.....

Disadvantage: .....  
.....

26. (a) Differentiate digital computers from analog computers. (02 marks)

.....  
.....  
.....  
.....  
.....

- (b) List **four** characteristics of mini-computers. (04 marks)

(i) .....  
(ii) .....  
(iii) .....  
(iv) .....

- (c) (i) Write the computer related abbreviation "PC" in full. (01 mark)

PC .....  
.....

- (ii) Give any **three** advantages of PC's over mini-computers. (03 marks)

.....  
.....  
.....  
.....

### SECTION C: (20 MARKS)

*Answer only **one** question from this section. Answers to the question **must** be done in the answer booklet provided. Any additional question(s) answered will **not** be marked.*

27. Why is it important for a school to have a website? (20 marks)

28. Identify the health hazards that are associated with the use of computers. (20 marks)

29. Describe any **five** devices used for the storage of data on a computer. (20 marks)