

451/1

PAPER1

SECTION A (40 Marks)

Answer *All* questions in this section.

1. Define the term **downloading** in relation to the internet (2 Mks) *BND*
2. State two reasons why **personal computers** are so important to (and common with) small businesses and entrepreneurs (2 Mks) *BND*
3. (a) Write down an **algorithm** for Memorizing a short play (2 Mk) *BND*
- (b) Draw a **flowchart** for the algorithm above (3 Mk) *BND*
4. What's the difference between a **trackball** and a **mouse** (1 Mks)*BND*
5. What is the: (3Mks) *BND*
- (a) **Binary** value of the **decimal** number 7
- (b) **Decimal** value of **hex** A
- (c) **Hex** value of **binary** number 11
6. Use the terms **scan code** and **interrupt** to describe how the keyboard works (2Mks) *BND*
7. Assuming you want to buy a **black-and-white** printer. State briefly, **four** important factors/criteria you'd use to evaluate the different types of printers (4Mk) *BND*
8. Mention **three** iteration statements (loop types) commonly used in programming (3Mks) *BND*
9. Describe the other program **control structures** besides iteration (3Mks) *BND*
10. Distinguish between **filtering** and **sorting** data as used in Spreadsheets? Use examples to explain your answer (2 Mks) *BND*
11. Write down the full meanings of the following computing Acronyms: (4 Mks) *BND*
- a) RISC.....
- b) POST
12. Briefly outline **six** roles of a Network administrator (3 Mks) *BND*
13. What do you understand by the term **device** driver? (2 Mks) *BND*
14. Distinguish between **baud rate** and **bit rate** (2Mks) *BND*
15. State **two** advantages of: (2 Mks) *BND*
- (a) CRT monitor
- (b) Flat panel displays

SECTION B (60 Marks)

Answer question **16** and any other **TWO** Questions.

16. (a) List **four** components of an information system (4 Mks) *BND*
- (b) Define the following **systems** related terms: (6 Mks) *BND*
- i). Data dictionary
- ii). Feasibility
- iii). Walkthrough
- (c) Briefly describe the **five** main stages of **system development** (5 Mks) *BND*
- (d) What is system **documentation** (2 Mks) *BND*
- (e) Why is Documentation important? (1 Mks) *BND*
- (f) At what **stage** of the system development cycle should documentation take place? (1 Mks) *BND*

17. Use the following **Ms Dos** Screen to Answer the questions that follow:

```

C:\mock>dir
Volume in drive C has no label.
Volume Serial Number is 0A69-18F2

Directory of C:\mock

04/25/2006  08:18 PM    <DIR>          .
04/25/2006  08:18 PM    <DIR>          ..
04/25/2006  08:19 PM             0 new.txt
04/25/2006  08:19 PM             0 one.txt
04/25/2006  08:19 PM    10,752 test.doc
04/25/2006  08:20 PM    <DIR>          two
04/25/2006  08:20 PM    10,240 mine.ppt
04/25/2006  08:20 PM             0 sea.bmp
04/25/2006  08:21 PM    11,776 school.xls

```

- a) What's the name of the **current directory**?(1 Mks*BND*)
- b) List the **folders** in this directory (2 Mks) *BND*
- c) List the **files** that exist in the current directory by filling in the table below (9 Mks) *BND*

File name	Type of file	Approximate size (Rounded off to the nearest kilobyte)

- d) What **command** would make your prompt change to C:\>_ (2 Mks) *BND*
- e) Write down the **statement** that would: (6 Mks) *BND*
 - i). Display only the files/directories whose names start with "s"
 - ii). Change the name of "sea.bmp" to "mombasa.jpg"
- 18. (a) Describe any three physical LAN **topologies** (3 Mks) *BND*
- (b) Define the following terms: (5 Mks) *BND*
 - i). Protocol
 - ii). Server
 - iii). Gateway
 - iv). Repeater
 - v). Bandwidth
- (c) Give **two disadvantages** of networking (3 Mks) *BND*
- (d) Explain the **line of sight** principle in wireless communication (3 Mks) *BND*
- (e) What's the work of the following in networking? (6 Mks) *BND*
 - i). Crimping tool
 - ii). Network interface card
 - iii). Network neighbourhood icon
- 19. (a) Explain how computers are used in the following areas: (6 Mks) *BND*
 - i). Law enforcement
 - ii). Banking
 - iii). A library
- (b) List and describe the **two** types of DTP software (3 Mks) *BND*
- (c) Define: (6 Mks) *BND*

- i). Pseudocode
- ii). Assembler
- iii). Object code

(d) Your principal is intending to install a simple **Internet** connection in the school. List down the **equipment/ services** that she'll require to achieve this **(5 Mks) *BND***