

Year 9

Basic Computing Concepts Test

28 October 2019

1. The computer can be defined as a “processor of information”. Explain why. (1)
The input and output of a computer is information. Likewise the processing is performed on information.
2. State two input devices and two output devices. (2)
Input: keyboard and mouse. Output: screen and printer.
3. State a device that acts both as input and output. (1)
The touch screen. It accepts data and instructions by means of touch and it displays output on the same screen.
4. State which of the following are hardware and which are software: word processor, keyboard, screen, operating system, web browser, antivirus. (3)
Hardware: keyboard, screen. Software: word processor, operating system, web browser, antivirus.
5. What is the difference between Data and Information? (2)
‘Data’ is a set of values that are given as input to be processed. ‘Information’ is the result of this processing i.e. the output.
6. Software is divided into two main categories. State these categories and give two examples of each. (4)
Software is divided in ‘application software’ i.e. software for the needs of the user, and ‘system software’ i.e. software required for the running of the computer. Examples are:
 - **Application software: word processor, game etc**
 - **System software: operating system, anti-virus etc.**
7. For the following programs state under which category they fall. The categories are (1) process control program, (2) office automation program, (3) industrial and commercial program, (4) multimedia program.
 - a. An email program (**office automation**)
 - b. A video-editing program (**multimedia program**)

- c. CAD (industrial and commercial program)
- d. A program that switches on or off an airconditioner according to the temperature of a room. (process control program) (4)

8. What is an embedded computer? (1)

It is computer that forms part of a larger system e.g. a computer inside a microwave oven or a washing machine.

9.

- a. What is a Terminal? (1)

It is a device used to enter data to a mainframe. It consists of a keyboard and a monitor.

- b. What is the difference between a Dumb and an Intelligent terminal? (1)

A dumb terminal cannot do any processing on its own but an intelligent terminal can.

10. Explain what EFTPOS is. (2)

- Stands for Electronic Fund Transfer Point of Sale.
- Such point-of-sale terminals are able to transfer funds from a customer's bank account directly to the retail outlet's account after reading the customer's debit card.

11. Explain what a client-server network is. (2)

In this kind of network the nodes (computers) are divided into two: the clients that ask for a service (e.g. to read a file) and the servers that supply the service (e.g. a file server will send the required file to the client). The server is usually a large computer responsible for a particular resource or resources e.g. a file server, a database server etc.