

RISHIKUL SANATAN COLLEGE
DEPARTMENT OF COMPUTER STUDIES
YEAR 11 – WORKSHEET 1
STRUCTURES AND FUNCTIONS OF COMPUTER

Circle the letter or fill in the correct answer

1. People, procedures, software, hardware, and data are the five parts of
 - A. competency system
 - B. information technology
 - C. computer system
 - D. software system

2. The least powerful, yet the most widely used and fastest-growing type of computer
 - A. a. mainframe computers
 - B. c. minicomputers
 - C. b. microcomputers
 - D. d. supercomputers

3. The system component that controls and manipulates data in order to produce information is called the
 - A. keyboard
 - B. monitor
 - C. microprocessor
 - D. mouse

4. These devices translate data and programs that humans can understand into a form that the computer can process.
 - A. display
 - B. output
 - C. input
 - D. pointer

5. A DVD is an example of
 - A. a(n) hard disk
 - B. output device
 - C. optical disc
 - D. solid-state storage device

6. The type of system unit that blurs the line between desktop computers and dedicated entertainment devices.
 - A. media center
 - B. notebook
 - C. netbook
 - D. tablet PC

7. The smallest unit in a digital system is a
 - A. byte
 - B. word
 - C. bit
 - D. character

8. The ____ controls communications for the entire computer system.
- arithmetic-logic unit
 - motherboard
 - semiconductor
 - coprocessor
9. These provide expansion capability for a computer system.
- sockets
 - bytes
 - slots
 - bays
10. The ____ performs two types of operations: arithmetic and logical.
- ALU
 - system unit
 - control unit
 - motherboard
11. A 32-bit word computer can access ____ bytes at a time.
- 4
 - 16
 - 8
 - 32
12. This type of memory improves processing by acting as a temporary high-speed holding area between the memory and the CPU.
- RAM
 - cache memory
 - ROM
 - flash memory
13. ____ refers to a computer's ability to configure and use a device without human interaction
- CPU
 - Cache
 - Plug and Play
 - ALU
14. ____ ports connect special types of music instruments to sound cards.
- BUS
 - USB
 - CPU
 - MIDI

OPEN-ENDED

On a separate sheet of paper, respond to each question or statement.

- Describe the two basic components of the CPU.
- What are the differences and similarities between the three types of memory?
- Identify five expansion cards and describe the function of each.
- Identify and describe four standard ports and three specialized ports
- What are the two types of hard disks?
- Describe three ways to improve hard disk performance.
- Compare solid-state and hard disk storage.
- List and compare the three most common optical disc formats?

9. Describe cloud computing and cloud storage.
10. Discuss mass storage systems including enterprise storage systems and storage area networks.

Essay

QUESTION 1 MAJOR PARTS AND FUNCTIONS (10 marks)

A computer system consists of three main components: input devices, processing devices and output devices.

Discuss each of the above components of the computer system under the following guidelines:

- its function **(3 marks)**
- a commonly used device for it **(3 marks)**
- one feature of each of the devices **(3 marks)**