

**Addis Ababa University**  
**College of Natural and Computational Sciences**  
**Department of Computer Science**  
**Introduction to Computer Science**  
**(Make-up Exam Summer 2023/24)**

Name: \_\_\_\_\_ Id No \_\_\_\_\_ Year \_\_\_\_\_

**Date: August 22, 2024**

**Time allowed: 1:30**

**Part I: True or False Questions**

- \_\_\_\_\_ 1. Mainframe computers have higher processing power than mini computers.
- \_\_\_\_\_ 2. Weather forecasting can be done using super computers.
- \_\_\_\_\_ 3. First generation computers used transistors as their circuitry components.
- \_\_\_\_\_ 4. Fifth generation computers are based on artificial intelligence.
- \_\_\_\_\_ 5. RAM carries arithmetic and logic operations.
- \_\_\_\_\_ 6. RAM is an example of permanent storage unit.
- \_\_\_\_\_ 7. Operating system is an example of application software.
- \_\_\_\_\_ 8. A database management system allows you to store information on a computer, retrieve it when you need it and update it when necessary.
- \_\_\_\_\_ 9. Assembly language is easier to learn than high level language.
- \_\_\_\_\_ 10. Spread sheet software is an example of a system software.

**Part II: Multiple Choice Questions**

**Instruction: Choose the best answer and write the letter of your choice on the space provided in front of each question.**

- \_\_\_\_\_ 1. Which one of the following is false?
  - A. Information is data with relationship
  - B. Data is more meaningful and important than information
  - C. Information is used a basis for taking decision
  - D. None of the above
- \_\_\_\_\_ 2. What is a computer?
  - A. device that transforms data into information
  - B. Input processor
  - C. Electronic devices
  - D. All of these
- \_\_\_\_\_ 3. On the basis of data handling capabilities, which of these are valid types of computers?
  - A. Analogue computer
  - B. Hybrid computer
  - C. Digital computer
  - D. All of these

- \_\_\_\_\_ 4. Which one of the following computer types operate through measuring some magnitude?  
A. Analog      B. Digital      C. Both Analog and Digital      D. None of the above
- \_\_\_\_\_ 5. Which one of the following is true about the function of a computer?  
A. Used for input data  
B. Used as output  
C. Used for processing data  
D. Used for storing  
E. All of the above
- \_\_\_\_\_ 6. \_\_\_\_\_ is the way that the computer gives us information in a way that we can see it, hear it, or touch it.  
A. Input      B. Output      C. storage      D. process
- \_\_\_\_\_ 7. Which of the following is/are characteristics of Computer?  
A. Diligence  
B. Versatility  
C. Reliability  
D. All of the Above
- \_\_\_\_\_ 8. Faulty inputs lead to faulty results. It is known as \_\_\_\_\_  
A. Diligence  
B. Versatility  
C. GIGO  
D. None of the Above
- \_\_\_\_\_ 9. The capacity of a computer to perform different various type of tasks is termed as \_\_\_\_\_  
A. Diligence  
B. Versatility  
C. Reliability  
D. All of the Above
- \_\_\_\_\_ 10. A computer does not suffer from tiredness and lack of concentration. It is known as \_\_\_\_\_  
A. Diligence      C. Versatility  
B. GIGO      D. None of the Above
- \_\_\_\_\_ 11. The fastest and most expensive computers are \_\_\_\_\_  
A. Super Computers  
B. Mini Computers  
C. Mainframe Computers  
D. Micro Computers
- \_\_\_\_\_ 12. Desktop and Personal computers are also known as \_\_\_\_\_  
A. Super Computer  
B. Mini Computer  
C. Mainframe Computer      D. Micro Compute

- \_\_\_\_\_ 13. First Generation computers used \_\_\_\_\_ for Circuitry and \_\_\_\_\_ for memory
- A. Transistor and Magnetic Core
  - B. IC and Magnetic Memory
  - C. Vacuum tubes and Magnetic drum
  - D. IC and Magnetic Core
- \_\_\_\_\_ 14. Second Generation computers were based on \_\_\_\_\_
- A. IC
  - B. Vacuum tube
  - C. transistor
  - D. None of the Above
- \_\_\_\_\_ 15. Third Generation computers were based on \_\_\_\_\_
- A. IC
  - B. Vacuum tube
  - C. transistor
  - D. None of the Above
- \_\_\_\_\_ 16. Which of these statements are TRUE about a supercomputer?
- A. It is used for scientific research
  - B. IT has very high computation speed
  - C. It is very expensive
  - D. All of these
- \_\_\_\_\_ 17. Which language is directly understood by the computer without translation program?
- A. BASIC
  - B. Machine language
  - C. Assembly language
  - D. C language
- \_\_\_\_\_ 18. Which one of the following shows the trend of computers?
- A. Size increased as we go from one generation to the next
  - B. Speed decreased as we go from one generation to the next
  - C. Cost decreased as we go from one generation to the next
  - D. There are no changes on operating systems from one generation to the other
- \_\_\_\_\_ 19. Which one of the following is not the function of the CPU?
- A. It carries arithmetic and logic operations
  - B. It can be used to store large amount of data
  - C. It controls the sequence of operations
  - D. It controls the overall activities of the computer system
- \_\_\_\_\_ 20. What characteristic of RAM makes it not suitable for permanent storage?
- A. Too slow
  - B. Too bulky
  - C. Unreliable
  - D. Volatile
- \_\_\_\_\_ 21. Which one of the following is not the role of an operating system?
- A. It organizes and manages the machine's resources, handles the input/output devices
  - B. It acts as intermediate between the user and the hardware
  - C. It decides where programs and data should be stored in the computer memory
  - D. It allows the user to perform specific tasks

\_\_\_\_\_ 22. Which one of the following is sequential access device?

- A. Magnetic tape
- B. Magnetic disk
- C. Optical disk
- D. All of the above

\_\_\_\_\_ 23. Desktop and Personal computers are also known as \_\_\_\_\_

- A. Super Computer
- B. Mini Computer
- C. Mainframe Computer
- D. Micro Computer

\_\_\_\_\_ 24. Which language is directly understood by the computer without translation program?

- A. BASIC
- B. Assembly language
- C. Machine language
- D. C language

\_\_\_\_\_ 25. The communication line between CPU memory and Peripherals is called a \_\_\_\_\_

- A. Registers
- B. Mother Board
- C. Bus
- D. None of the Above

\_\_\_\_\_ 26. The computer performs all mathematical and logical operations inside its \_\_\_\_\_

- A. Visual Display Unit
- B. Memory Unit
- C. Output Unit
- D. Central Processing Unit

\_\_\_\_\_ 27. Which of the following groups consist of only Input devices?

- A. Mouse, Keyboard, Monitor
- B. Mouse, Keyboard, Printer
- C. Mouse, Keyboard, Plotter
- D. Mouse, Keyboard, Scanner

\_\_\_\_\_ 28. What type of devices are computer speakers or headphones?

- A. Input
- B. Output
- C. Input/Output
- D. None of the Above

\_\_\_\_\_ 29. Which of the following is not a hardware?

- A. Processor
- B. Printer
- C. Mouse
- D. Microsoft Word

\_\_\_\_\_ 30. Which of the following device is used to enter the text and numerical data in a computer?

- A. Plotter
- B. Printer
- C. Scanner
- D. Keyboard

**Part II: Matching [1pt each]**

A	B
<p>___ 1. Translates the whole lines of codes at a time before execution starts</p> <p>___ 2. Translates assembly instructions</p> <p>___ 3. Translates and makes executed before the next instruction is translated</p> <p>___ 4. Laptop</p> <p>___ 5. Respond to an event within a well defined time</p> <p>___ 6. Based on artificial intelligence</p> <p>___ 7. Transistors</p> <p>___ 8. Integrated Circuit</p> <p>___ 9. Up-to-date</p> <p>___ 10. Thermometer</p>	<p>A. Example of microcomputer</p> <p>B. Spreadsheet</p> <p>C. Interpreter</p> <p>D. Compiler</p> <p>E. Assembler</p> <p>F. Multi tasking operating system</p> <p>G. Real time operating system</p> <p>H. Third Generation</p> <p>I. Fourth Generation</p> <p>J. Quality of information</p> <p>K. Digital computer</p> <p>L. Analog computer</p> <p>M. Fifth Generation</p> <p>N. Second Generation</p>