

June : 2026

COMPUTER SCIENCE

Paper: GEC-CSC-201

BASICS OF HARDWARE MAINTENANCE

Time: 2 Hours

Total Mark: 45

(The figures in the right margin indicate full marks of the questions)

1. Choose the correct answer from the following: 1×5=5
- i. Which directs all computer operations?
 - a. ALU
 - b. Control Unit
 - c. Registers
 - d. None of these
 - ii. What is the unit of Current?
 - a. Ampere (A)
 - b. Coulomb (C)
 - c. Unidirectional
 - d. None of these
 - iii. The smallest unit of data is?
 - a. Nibble
 - b. Byte
 - c. KB
 - d. Bit
 - iv. Which memory is Temporary and Volatile?
 - a. Secondary
 - b. RAM
 - c. ROM
 - d. Cache memory
 - v. In which type of current the flow of electric charge is unidirectional?
 - a. Direct current
 - b. Alternating current
 - c. Both a and b
 - d. None of these

2. Answer the following questions (*any three*): 3×4=12
- i. Differentiate between CPU sockets and ports? Give examples.
 - ii. Compare and contrast between SRAM and DRAM based on four parameters.
 - iii. Define hard disk drive jumper-setting? Explain its primary purposes.
 - iv. What is the difference between Internal and External hardware components? Give two examples of each.
 - v. List four common causes of keyboard lag in wireless keyboard.
3. Answer the following questions (*any four*): 4×7=28
- i. Briefly explain the different sections of motherboard with their purposes.
 - ii. Define electric current. What is conventional current and electron flow? Also differentiate between direct current and alternating current as per their features.
 - iii. What is SMPS? Explain different pin voltage and how to test in multimeter.
 - iv. Explain the working principal of an optical mouse with a block diagram.
 - v. Briefly explain the working of a computer system with a suitable block diagram and also mention the role of each component.
