



K23U 4063

Reg. No. : .....

Name : .....

I Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, November 2023  
(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN COMPUTER SCIENCE  
1C01CSC : Introduction to Computers and Programming

Time : 3 Hours

Max. Marks : 32

PART – A  
(Short Answer)

Answer all questions :

(5×1=5)

1. Define CPU and mention its basic components.
2. What is the function of the Control Unit in a computer system ?
3. Explain the difference between RAM and ROM.
4. Name two types of System Software.
5. Define the term “BIOS” in the context of computer hardware.

PART – B  
(Short Essay)

Answer any 4 questions :

(4×2=8)

6. Differentiate between primary and secondary memory.
7. Explain the concept of Memory Hierarchy in computer systems.
8. Convert the decimal number 25 to its binary and hexadecimal equivalents.
9. Discuss the importance of the Operating System in a computer.
10. Define and provide an example of each: Shareware and Freeware.
11. Describe the role of a compiler in the context of programming languages.

P.T.O.





**PART – C**  
**(Essay)**

Answer **any 3** questions :

(3×3=9)

12. Illustrate the differences between LAN, MAN and WAN.
13. Perform binary addition for the numbers 1101 and 1011.
14. Explain the concepts of 1's complement and 2's complement in binary arithmetic.
15. Discuss the Software Development Life Cycle (SDLC) phases.
16. Describe the characteristics of a good computer program.

**PART – D**  
**(Long Essay)**

Answer **any 2** questions :

(2×5=10)

17. Provide an in-depth explanation of the components inside a computer cabinet.
18. Elaborate on the different types of number systems, focusing on their applications.
19. Discuss the programming paradigms, specifically highlighting the principles of Structured Programming.
20. Compare and contrast the functions of a compiler, assembler, interpreter, linker and loader in program development.