K21U 6789

I Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2021
(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. Storage units inside CPU are called

2. What are the different types of RAM ?

3. What is the 1's complement of 11001_2 ?

4. Give an example for an open source software.

5. What is the function of linker ?

PART – B
(Short Essay)

Answer **any 4** questions.

(4×2=8)

6. What is a digital computer ? List the characteristics of a computer.

7. What do you mean by BIOS ? Explain its significance.

8. Convert $2AF_{16}$ to its decimal equivalent.

9. Explain the concept of binary coded decimal number with an example.

10. What do you mean by object oriented programming ? What are its advantages ?

11. What is the importance of algorithm ? What are the characteristics of a good program ?

PART – C

(Essay)

Answer **any 3** questions.

(3×3=9)

12. Explain the memory hierarchy of a computer system with a neat diagram.

13. What is ROM ? Discuss the different types of ROM.

14. Perform binary addition and subtraction of the numbers 10101_2 and 1001_2.

15. What do you mean by an operating system ? List the major functions of an operating system.

16. What is the difference in working of assembler, linker and loader ?

PART – D

(Long Essay)

Answer **any 2** questions.

(2×5=10)

17. Explain any five components found inside a computer cabinet.

18. Represent the decimal number 458_{10} in binary, octal and hexadecimal number systems.

19. Write a note on computer networks and the need for networking.

20. Discuss the various control structures used in programming.

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