K22U 3411

Reg. No. : .....

Name : .....

I Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, November 2022
(2019 Admission Onwards)
COMPLEMENTARY ELECTIVE COURSE IN COMPUTER SCIENCE
1C01 CSC : Introduction to Computers and Programming

Time : 3 Hours Max. Marks : 32

PART – A
(Short Answer)

Answer **all** questions. (5×1=5)

1. What is accumulator ?
2. Differentiate L1 and L2 Cache.
3. Why ASCII code is used ?
4. What is freeware ?
5. What is the use of Loader ?

PART – B
(Short Essay)

Answer **any 4** questions. (4×2=8)

6. Differentiate serial and parallel ports.
7. Convert $(110110.11)_2$ to $(--)_8$.
8. Add 191AF H and 25AAA H.

P.T.O.

9. Differentiate open source and licensed software.

10. How program control flows in loop structure ?

11. Write any two characteristics of a good program.

PART – C
(Essay)

Answer **any 3** questions. **(3×3=9)**

12. With the help of a diagram, explain the hierarchy of memory.

13. Differentiate BCD and Binary numbers.

14. Convert :
    a) 255 to 2's complement number.
    b) $(2342)_{10}$ to hexa-decimal.

15. What is a network ? Write any two applications of network.

16. Write any three functions of operating system.

PART – D
(Long Essay)

Answer **any 2** questions. **(2×5=10)**

17. With a functional block diagram, explain the functional components of a computer system.

18. Explain different types of ROM.

19. Explain octal and hexa-decimal number systems. Why hexa-decimal number system is used ?

20. Write a short note on program development life cycle.