**I Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)
Examination, November 2017
(2014 Admn. Onwards)
CORE COURSE IN COMPUTER SCIENCE
1B01 CSC : Introduction to Computers and Programming Languages**

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer :   (8×0.5=4)

   a) Central Processing Unit is the _____ of a computer.

   b) A character is represented in EBCDIC by _____ bits.

   c) _____ is a rewritable disk that makes use of both magnetic disk and optical technologies.

   d) _____ is type of ROM which is used to store data permanently.

   e) The conversion specification used for integer type of data is _____

   f) The complement operator is represented by the symbol _____

   g) IPR stands for _____

   h) _____ is the illegal copying, distribution or use of software.

SECTION – B

Write short notes on **any seven** of the following questions :   (7×2=14)

2. What is System Bus ?

3. What is an Algorithm ?

4. Explain Memory Hierarchy.

5. Define Cache memory.

P.T.O.

6. What are bitwise operators in C ? Give examples.

7. What are entry controlled loops ?

8. What are the security threats in IT industry ?

9. Define Software Piracy.

10. Explain ISDN.

11. Define IPR.

SECTION – C

Answer **any four** of the following questions :   **(4×3=12)**

12. Write the differences between top down and bottom up approaches.

13. Draw a flow chart for finding the largest of three numbers.

14. Differentiate i++ and ++i with an example.

15. Explain with an example how do .. while differ from while statement.

16. What are control statements in C ? Explain with suitable example.

17. Write a note on IT Act.

SECTION – D

Write an essay on **any two** of the following questions :   **(2×5=10)**

18. Explain the fundamental data types in C.

19. Explain different forms of if statement with suitable examples.

20. Write short notes on :
    a) Software Patents
    b) Software Copyright.

21. Explain in detail the guidelines for the proper usage of internet and mobile phones.

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