K20U 3173

I Semester B.Sc. Degree (CBCSS – Supplementary)
Examination, November 2020
(2014 – 2018 Admissions)
CORE COURSE IN COMPUTER SCIENCE
1B01CSC : Introduction to Computers and Programming Languages

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer.

   $(8×0.5=4)$

   a) Expand VLSI.

   b) Which register in a computer processor that contains the address (location) of the instruction being executed at the current time ?

   c) Type of portable flash memory storage appliance that's typically used with handheld devices.

   d) _____ is a measure of how easily an application can be transferred from one computer environment to another.

   e) An operator that takes three arguments is called

   f) Which indicates the format or sequence and type of data to be read from the standard input device or written to standard output device ?

   g) A set of communication standards for simultaneous digital transmission of voice, video, data and other network services over the traditional circuits of the public switched telephone network.

   h) _____ is a very small computer that can be held in the palm of the hand.

SECTION – B

Write short notes on **any seven** of the following questions.

$(7×2=14)$

2. Differentiate between L1 and L2 cache.

3. How negative numbers are represented using 2's complement ?

P.T.O.

4. What are the disadvantages of assembly language ?

5. What are the steps involved in executing a C program ?

6. What are trigraph characters ? How they are used ?

7. How *goto* statement works ?

8. What are the requirements of a loop ?

9. What is plagiarism ?

10. What is sentinel loops ? Give an example.

11. How floating point numbers are represented in computers ?

SECTION – C

Write short notes on **any four** of the following questions. $(4×3=12)$

12. What are the characteristics of third generation computers ?

13. What is the role of different buses of computers ?

14. Write a program to reverse an integer number.

15. Discuss entry controlled and exit controlled loops.

16. What are the guidelines for proper usage of mobile phones ?

17. Write notes on cyber ethics.

SECTION – D

Write short notes on **any two** of the following questions. $(2×5=10)$

18. Discuss various secondary storage devices.

19. Explain program development cycle with the help of a block diagram.

20. Discuss branching statements in C language.

21. Discuss the basic concepts of IPR. Differentiate copyrights and patents.

_____