D 73709 **(Pages : 3)** **Name.....**

Reg. No.....

FIRST SEMESTER B.C.A. DEGREE (SUPPLEMENTARY/IMPROVEMENT) EXAMINATION, NOVEMBER 2014

(UG-CCSS)

Core Course

CA 1B 01—COMPUTER FUNDAMENTALS AND PROGRAMMING IN 'C'

Time : Three Hours **Maximum : 30 Weightage**

Part I

Answer* all *questions.
Each questions carries ¼ weightage.

1. **Which of the following is not an example of operating system ?**
   - **(a) Windows 98.**
   - **(b) BSD Unix.**
   - **(c) Microsoft Office XP.**
   - **(d) Redhat Linux.**
2. **A dot-matrix printer :**
   - **(a) Is an input-output device.**
   - **(b) Is an output device.**
   - **(c) Is an input device.**
   - **(d) None of these.**
3. **One kilobyte is equal to :**
   - **(a) 1000 byets.**
   - **(b) 1024 bytes.**
   - **(c) 100 bytes.**
   - **(d) 1023 bytes.**
4. **PC stands for :**
   - **(a) Peripheral Control.**
   - **(b) Print Control.**
   - **(c) Program Counter.**
   - **(d) Pointer Control.**
5. **What is a reference ?**
   - **(a) An operator.**
   - **(b) A refernce is an bias for an object.**
   - **(c) Used to rename an object.**
   - **(d) None of these.**
6. **The command scanf is called :**
   - **(a) An insertion operator.**
   - **(b) A get from operator.**
   - **(c) Either *(a)* or (b).**
   - **(d) None of the above.**
7. **A constructor is called whenever :**
   - **(a) A object is declared.**
   - **(b) An object is used.**
   - **(c) A class is declared.**
   - **(d) A class is used.**

Turn over

8. Which of the following cannot be checked in switch-case statement ?

(a) Character. (b) Float.

(c) Integer. (d) Enum.

9. What does the following declaration mean ?

int (*ptr) [10] ?

(a) ptr is array of pointers to 10 integers.

(b) ptr is a pointer to an array of 10 integers.

(c) ptr is an array of 1.0 integers.

(d) ptr is an pointer to array.

10. How many bytes of memory are used to store a long long data type _____

11. A step by step instructions to solve a problem is called a _____

12. A function that calls itself to complete in task is called _____ a function.

(12 x ¼ = 3 weightage)

Part II

Answer **all** *questions.*
Each question carries 1 weightage.

13. Define Compilers.
14. What is utility software ?
15. What is address bus ?
16. Define Cache memory.
17. What is flow chart ?
18. Write about identifiers.
19. Define Constants.
20. Define Recursion.
21. Give about "fprintf".

(9 x 1 = 9 weightage)

Part III

Answer any **five** *questions.*
Each question carries 2 weightage.

22. Explain evolution of computers.
23. Convert $(BCD)_{16}$ to binary and decimal numbers.
24. Write about static RAM.
25. Explain DMA.
26. With example, explain if statement.
27. Explain pointers.
28. Explain macro expansion.

(5 x 2 = 10 weightage)

Part IV

Answer any two questions.
Each question carries **4** *weightage.*

29. Explain any *two* storage devices.

30. What are the various addressing modes any two with examples ?

31. Write a C program to add n numbers.

(2 x 4 = 8 weightage)