M 7875

Reg. No. : ....

Name : ....

I Semester B.C.A. Degree (CCSS – Regular) Examination, November 2014
(2014 Admn.)
CORE COURSE
1B01 BCA : Programming in C

Time: 3 Hours   Max. Marks : 40

SECTION – A

Answer **all** questions.

1. The smallest individual unit in C program are known as _____

2. What is the output of the following code ?

   ```
   #include<stdio.h>

   int main()

   {

   int i=1;

   printf("%d%d%d" ,++i,i++,++i);

   return (0);

   }
   ```

   a) 224   b) 234

   c) 334   d) 422

3. In C all functions except main () can be called recursively (True/False).

4. Which of the following cannot be checked in a switch case statement ?

   a) Character   b) Integer

   c) Float   d) Enum

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5. Find errors if any

```
#include<stdio.h>
int main()
{
    int i=1;
    for(;;)
{printf("%d/n",i++);
    if(i>10)
    break;
}
    return 0;
}
```

6. Which type of file cannot be opened using fopen() ?

 a) .txt b) .bin c) .c d) None of these

7. int a [5]={1,2,3} what is the value of a [4] ?

 a) 3 b) 1

 c) garbage vale d) 0

8. File is type _____

 a) int type b) char*type

 c) struct type d) None of the above (8×0.5=4)

SECTION – B

Write short notes on **any seven** :

9. Define algorithm and flowchart.

10. What is top – down design ?

11. What are keywords and identifiers ?

12. What is entry controlled loop ?

13. What is the purpose of register storage class ?

14. How does structure differ from an array ?

15. Write the precedence and order of evaluation of operators.

16. How values are assigned to members of structure ?

17. Distinguish between printf() and fprintf().

18. Write the general format for declaring, opening and closing a file.   (7×2=14)

SECTION – C

Answer **any four** of the following :

19. Write a recursive function program to find the factorial of a number.

20. Explain the syntax of else if ladder with suitable example.

21. Explain the basic data types in C.

22. Write a program which will read a string and rewrite it in the alphabetical order.

23. Explain any three string handling functions with examples.

24. Write a program to read the age of n persons and count the number of persons in the age group 50 to 60 using for and continue statements.   (4×3=12)

SECTION – D

Write an essay on **any two** of the following :

25. Explain the different looping structures available in C with examples.

26. A) Define pointer in C language. How the declarations are made for pointer variables ? What is the difference between the function pointer and pointer to a function ?

    B) Write a program using do while loop to calculate the sum of every third integer beginning with i=2 for all values of I that are less than 100.

27. A) Write a program to read a line of text and output the number of words and characters.

    B) Write a program to find prime numbers between 50 and 500.

28. A) Write a program to merge two sorted array in to a single array in ascending order.

    B) Write a function to remove duplicates from an ordered array.   (2×5=10)

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