KUMARAGURU
college of technology
character is life

Register Number: …….

B.E/ B.TECH DEGREE EXAMINATIONS: DEC 2014

(Regulation 2009)

First Semester

CSE101: PROGRAMMING WITH C

(Common to All Branches)

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Physical components of a computer system are referred as
   a) Hardware b) Software
   c) Utilities d) System software
2. ---------- is a program that translates source code written in programming language into a computer readable machine code.
   a) Assembler b) Compiler
   c) Program d) Segment
3. Which of the following is used to represent comments in C?
   a) { } b) [ ]
   c) /* */ d) ( )
4. Identify the unary operators in the following:
   a) = b) +
   c) - d) ++
5. The arguments of calling functions are ---------- arguments.
   a) Actual b) Formal
   c) Return type d) Function

6. A variable declared inside the function without storage class by default is an ------ variable.

   a) Extern
   b) Auto
   c) Static
   d) Register

7. Which string function is used to compare characters of two strings upto the specified length?

   a) Strncmp( )
   b) Strcmp( )
   c) Stricmp( )
   d) Strnecmp( )

8. Which is the correct way to declare a pointer?

   a) *int ptr;
   b) int ptr*;
   c) Int_ptr*;
   d) int *ptr;

9. ---------- is used for calling DOS interrupt.

   a) intdos( )
   b) dosint( )
   c) Intt( )
   d) Int( )

10. The union holds ---------- objects at a time.

    a) Multiple
    b) Only one
    c) Either single or multiple
    d) Neither single nor multiple

PART B (10 x 2 = 20 Marks)

11. What are the types of software? Give example for each.
12. Define algorithm.
13. Write the classification of character sets.
14. Write the syntax of if—else statement.
15. What is recursion?
16. Write the uses of sscanf() and sprintf()
17. Find the output of the following:

```
#include <math.h>
Void main()
{
int i, marks[5]={55,56,67,78,64}
clrscr();
for(i=2; i<=4;i++)
```

```
printf("\n %d", marks[i]);
getche();
}
```

18. Give some memory allocation functions.

19. List the features of structures.

20. Compare structure and union.

PART C (5 x 14 = 70 Marks)

21. a) Discuss the various program control structures in C.

(OR)

b) Explain the generations of computers in detail.

22. a) Explain the types of operators in C. Discuss their properties.

(OR)

b) i) Write a C program to find the biggest among the given three numbers. (7)

ii) Write a C program to find the factorial of given number. (7)

23. a) Explain the types of functions with respect to arguments and return values.

(OR)

b) i) Write a C program for matrix multiplication. (7)

ii) Write about storage classes. (7)

24. a) Discuss the various string standard functions in C.

(OR)

b) With a C program, explain about array of pointers.

25. a) Explain how to create an array of structures. Illustrate with an example program.

(OR)

b) i) Explain the steps for file creation. (7)

ii) Write about command line arguments. (7)

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