KUMARAGURU
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Register Number: ……..

B.E / B.TECH DEGREE EXAMINATIONS: JUNE 2015

(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. Linux is a type of _____ software

   a) Open Source b) Shareware

   c) Commercial d) Proprietary

2. Query language comes under _____

   a) Third generation b) Fourth generation

   c) Fifth generation d) First generation

3. How many variables can be initialized at a time?

   a) One b) Two

   c) Five d) Any number of variables

4. What will be the value of b after execution of the following program?

```
main()
{
int b, k=8;
b=k++;
}
```

   a) b=8 b) b=12

   c) b=10 d) b=9

5. By default function returns

   a) Integer value b) Float value

   c) Char value d) String value

6. An array is a collection of

   a) Different data types b) Same data types

   c) Both a and b d) None of the above

7. The string always ends with

   a) ‘\0’character b) ‘\’character

   c) ‘0\’character d) ‘0’ charactor

8. What will be the result of the following program?

```
Void main()
{
int a=8,b=2,c,*p;
c=a*b;
p=&c;
clrscr();
printf(“\n %d”,*p);
}
```

   a) 16 b) 50AB

   c) 17 d) None of the above

9. Union ul

```
{
Int a[5];
Char b[3];
};
```

   How much space is allocated to ul at the time of compilation?

   a) 13 bytes b) 5 bytes

   c) 10 bytes d) 7 bytes

10. The EOF is equivalent to

    a) -1 b) 0

    c) 1 d) -2

PART B (10 x 2 = 20 Marks)

11. Write the steps involved in process of booting.
12. Define compiler
13. Why C is called middle level language?
14. Write the syntax of switch () statement.
15. List the four scope variables.
16. Define two dimensional array with syntax.
17. What is NULL character? Why it is important?
18. Mention the pointer variable declaration with example.
19. Define enumerated data type
20. List the steps for file operation in C

PART C (5 x 14 = 70 Marks)

21. a) Summarize the various computer generations along with the key characteristics of the Computers of each generation.

(OR)

b) Write the working principle of Compiler, Interpreter, Linker and Loader with neat diagram.

22. a) i) Write a C program to read the values a, b, c through keyboard. Add them and after addition check if it is in the range of 100 & 200 or not. Print a separate message for each input with sample output. (7)

ii) Explain the types of arithmetic operators with example. (7)

(OR)

b) i) Write a C program to calculate the average of three real numbers with sample output (5)

ii) Explain any three loop control statements with syntax and example (9)

23. a) Define function and the use of function with its working scenario. Explain Declaration of function and function prototype.

(OR)

b) i) Explain the working of external and auto variables with an example. (7)

ii) Write a C program to find the transpose of a 2 –D matrix. (7)

24. a) i) Write a C program to display the address of the variable with sample output (4)

ii) Explain the dynamic memory allocation with memory models and memory allocation functions (10)

(OR)

b) i) Write a C program to print “WELCOME” by using different formats of initialization of array with sample output. (6)

ii) Explain the use of any four standard string functions using examples. (8)

25. a) i) Define structure with its features. Write a C program to declare initialize the structure and output its contents. (8)

ii) Write a C program to create enumerated data type for 12 months. (6)

(OR)

b) List different FILE I/O functions. Explain any four function, with syntax and example.

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