C 41845

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Name.....

Reg. No.

# SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2013

(CCSS)

**Computer Science** 

CS 2C 02—PROGRAMMING IN C

Time : Three Hours

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Maximum : 30 Weightage

Section A

## Answer **all** questions

What will be the output of the following programe ?

main 0

int n=125, sum=0 re; while(n>0)

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sum+=re;

n/= 10;

printf ("sum is=%d",sum);

- 2. What will be the output of the following C program segment for the values of x and y if **n** assumes a value of (a) 1 and (b) 0.
  - int x =1; int y = 1; if(n>0) x = x + 1; y = y - 1; printf("%d%d", x,y);

Turn over

3. What will be the output of the following program :

```
main()
```

```
int x=10;
  int y = 20;
  int p,q;
  p = prod(x,y);
    q = prod(p, prod(x, 2));
    printf("%d%d\n",p,q);
prod(a,b)
int a,b;
```

}

```
return(a*b);
```

- 4. Give the syntax of ternary operator in C.
- 5. Which loop control statement in C is called as entry control loop?
- 6. Write down the function name which frees previously allocated memory space in C ?
- 7. What will be output of following program?

```
int main(){
```

```
int \mathbf{i} = 3;
int *j;
int **k;
j=&i;
k=&j;
printf("%u %u %u",i,*j,**k);
```

```
return 0;
```

- What is the range of values that can be represented by a variable of signed int in a compiler in 8. which size of *int* is two byte?
- 9. Which statement is used in C for by passing a loop construct ?
- 10. Which is the terminator symbol in C?

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- 11. Write down the function name which frees previously allocated memory space in C ?
- 12. Write down the C code for declaring an array of size 10.

 $(12 \text{ x} \frac{1}{4} = 3 \text{ weightage})$ 

### Section B

## Answer **all** questions

- 13. Give any four relational operators in C?
- 14. Distinguish between break and continue statement in C.
- 15. List any four string handling functions in C.
- 16. How will you define a pointer variable in C?
- 17. Explain the use of *fseek()* function ?
- 18. What is the scope of a local variable ?
- 19. Differentiate structure and union.
- 20. What is the use of *enum* data type in-C?
- 21. Explain syntax of *calloc()* function in C.

### Section C

#### Answer any **five** questions.

- 22. Explain the fundamental data types in C.
- 23. Explain *else if* ladder using suitable example.
- 24. What is recursion? Explain with an example.
- 25. Using suitable example explain actual and formal arguments in C.
- 26. What is structure variable ? How a structure variable can be accessed using pointer ?
- 27. Write a note on command line arguments.
- 28. Discuss the different storage classes in C.

 $(5 \ge 2 = 10 \text{ weightage})$ 

#### Section D

#### Answer any **two** questions.

- 29. Write a C program to sort N numbers in descending order.
- 30. Write a C program to compute  $x^x$  where x is an integer number accepted as input.
- 31. Write a C program to read two matrices of suitable order and find its product.

 $(2 \times 4 = 8 \text{ weightage})$ 

## (9 x 1= 9 weightage)