C 41845	(Pages : 3)	Name
		Reg. No
SECOND SEMESTER	B.Sc. DEGREE EXAMINATI	ON, APRIL/MAY 2013
	(CCSS)	
	Computer Science	
(CS 2C 02—PROGRAMMING IN	С
Time Three Hours		Maximum: 30 Weightage
	Section A	
	Answer all questions	
What will be the output o	of the following programe ?	
main 0		
int n=125, sum=0 re;		
while(n>0)		
re=n%10;		
sum+=re;		
n/= 10;		
printf ("sum is=%d" sum	n);	
2. What will be the output of a value of (a) 1 and (b) 0	f the following C program segment for	r the values of x and y if n assumes
int x =1;		
int $y = 1$;		
if(n>0)		
$\mathbf{x} = \mathbf{x} + 1;$		
y = y - 1;		
printf("%d%d", x,y);		

Turn over

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

```
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);
```

main()

- 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 i = 3;
    int *j;
    int **k;
    i=&i;
    k=&i;
    printfi **%u %u %u*,i,*j,**k);
return 0;
```

- 8. What is the range of values that can be represented by a variable of signed int in a compiler in 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.

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

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 freek() function?
- 18. What is the scope of a local variable ?
- 19. Differentiate structure and union.
- 20. What is the use of mum data type in-C ?
- 21. Explain syntax of called function in C.

 $(9 \times 1 = 9 \text{ weightage})$

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 \(\big| \) How a structure variable can be accessed using pointer \(\big| \)
- 27. Write a note on command line arguments.
- 28. Discuss the different storage classes in C.

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

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 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.

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