C 41845	(Pages : 3)	Name
		Reg. No·····
SECOND SEM	ESTER B.Sc. DEGREE EXA	MINATION, APRIL/MAY 2013
	(CCSS)	
	Computer Scien	nce
	CS 2C 02—PROGRAMI	MING IN C
Time: Three Hours		Maximum: 30 Weightage
	Section A	
	Answer all questi	ons
1. What will be the	e output of the following programe?	7
main 0		
int n=125, st	um=0 re;	
while(n>0)		
re=n%10;		
sum+=re;		
n/=10;		
printf ("sum is	;=%d",sum);	
2. What will be the a value of (a) 1		segment for the values of \mathbf{x} and y if \mathbf{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;
  j=&i;
  k=&j;
  printf("%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 *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.

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

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? 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.

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

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 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.

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