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(Pages: 4)

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# SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2014

(U.G.—CCSS)

Complementary Course—Computer Science CS 2C 02—PROGRAMMING IN 'C'

me: Three Hours

Maximum: 30 Weightage

### Section A

Answer all questions.

- 1. Which of the following is not a valid C variable name?
  - (a) int number.

- (b) float rate.
- (c) int variable\_count.
- (d) int \$main.
- 2. What is the output of this C code?

```
# include < stdio. h >
```

# define a 10

int main ()

const int a = 5; printf ("  $a = \% d \mid n$ ", a);

(a) a = 5.

- (b) a = 10.
- (c) Compilation error. (d) Runtime error.
- 3. What is the output of the following C code?

# include < stdio.h >

int main ()

 ${int i = 0}$ ;

int x = i ++, y = ++ I;

printf ("%d %d\n", x, y);

return 0;

(a) 0, 2.

(b) 0, 1.

(c) 1, 2.

(d) undefined.

Turn over

4.	Which	of the following cannot be used as	LHS o	of the expression in for (exp $1$ ; exp $2$ ; exp		
	(a)	Variable.	(b)	Function.		
	(c)	Typedef.	(d)	Macros.		
5.	How m			for a "normal function call" for each		
	(a)	2.	(b)	3.		
	(c)	estionis0	(d)	1.4884		
6.	String	is a data type (TRUE/FALSE).		Which of the following is not a valid C val		
7.	(a) int number. (b) float rate					
	(a)	Auto.	(b)	Struct. (5)		
	(c)	Extern.	(d)	Static.		
8.	What is	s the associativity of the conditional	lopera			
	(a)	Left to Right.	(b)	Right to Left.		
	(c)	Top to Bottom.	(d)	Bottom to Top.		
9.	What is	s the output of the following function	on?			
		int f1 (int a, int b)				
		s=10.				
		return (f2 (20));				
		1				
		140001		# include < stdio,h > \		
		int f2 (int a)				
		{				
		return (a* a);				
		}				
10.	Size of	a union is determined by size of th	e —	netwin 0		
	(a)	First member in the union.	(b)	Last member in the union.		
	(c)	Biggest member in the union.	(d)	Sum of the sizes of all members.		
		oo	(4)	S SALE SE VALO DELOG OF GIT IIIOIIIOOID.		

- 1. The process of allocating memory at run time is called \_\_\_\_\_
- 2. Which type of files can't be opened using fopen ()?
- (a) .txt.

(b) bin

(c) .c.

(d) None of the mentioned.

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

#### Section B

Answer all questions.

- What is an identifier?
- Define an array. How arrays can be declared?
- What is purpose of register storage class?
- Define a pointer.
- What is precedence of operators?
- Distinguish between break and continue statement in C.
- What is union?

Define recursion.

What are formal arguments?

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

### Section C

Answer any five questions.

Explain the structure of a C program.

Explain the working of do-while with an example.

Differentiate between a variable and a keyword.

Explain the syntax of else if ladder with suitable examples.

Write a program to reverse a number.

Write a program to find the sum of two matrices.

What is structure variable? How a structure variable can be accessed using pointer?

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

### Section D

## Answer any two questions.

- 29. (a) Write a program to merge two sorted array in to a single sorted array in ascending or
  - (b) Write a function to remove duplicates from an ordered array.
- 30. What are strings? How they are represented in memory? Write a program to reverse a s
- 31. What are sequential files? Explain various file handling functions with suitable example  $(2 \times 4 = 8 \text{ wei})$