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FIFTH SEMESTER B.A./B.Sc./B.Com/B.B.A. DEGREE EXAMINATION **NOVEMBER 2016**

(CUCBCSS—UG)

Open Course

RAMMING

В	CS 5D	03—INTRODUCTION	TO PROBLE	M SOLVING AND	C PROGRAMMING			
Time :	Two Ho	urs			Maximum : 40 Marks			
			Section	A				
			Answer all qu	estions.				
1.	The dir	ectives for the pre-proce	ssors begin with					
	(a)	& .	(b)	//.				
	(c)	#.	(d)	<.	*			
2.	2. A declaration float a,b; accupies ———— of memory?							
	(a)	1 bytes.	(b)	4 bytes.				
	(c)	8 bytes.	(d)	16 bytes.				
3.	The op	erators « and » are :						
	(a)	assignment operator.	(b)	relational operator.				
	(c)	logical operator.	(d)	bitwise shift operator.				
4.	What is	s the output of the follow	ving code.		,			
	int n =	0, m;						
	for (m	= 1; m < = n + 1; m++)						
	printf('%d", m);						
	(a)	2.	(b)	1.				
	(c)	0.	(d)	6.				
5.	Symbolic constants can be defined using ——— keyword.							
6.	If the two strings are identical, then strcmp() function returns ————.							
7.	By default a function returns a value of type ————.							
8.	A static variable by default gets initialized to ————.							

9. Consider the following statements ————.

$$x = 5$$
;

$$y = x > 3 ? 10 : 20$$
;

. After executing the above two statements, what is the value of y?

10. The built-in function that allocates requested size of bytes and returns a pointer to the first byte of the allocated space is ————.

 $(10 \times 1 = 10 \text{ marks})$

Section B

Answer all questions.

Each question carries 2 marks.

- 11. What is an operator? Describe several different types of operators included in C.
- 12. Distinguish between getchar and scanf functions available in C.
- 13. What is the purpose of do-while statement? How does it differ from the while statement?
- 14. What is function prototyping? Why it is necessary?
- 15. Describe with example, the different ways of assigning initial values to structure members.

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

Section C

Answer any five of the following.

- 16. What are constants? Explain the four basic types of constants with suitable examples.
- 17. Write a program to read two integer values m and n and to decide and print whether m is a multiple of n.
- 18. What is meant by type conversion? What are explicit and implicit type conversion rules? Explain with suitable examples.
- 19. What are the three principal components of a function definition? Write a function definition to calculate the factorial of a number.
- 20. Write a program to add 10 numbers of an array and also find the greatest of these 10 numbers.
- 21. Describe with examples, the different ways of assigning values to structure members. Also state the rules for initializing structures.
- 22. Write a program to check whether a string is palindrome or not.
- 23. Write short notes on:
 - (a) Storage classes available in C.
 - (b) Bit-fields.

 $(5 \times 4 = 20 \text{ marks})$