Exam. Code: 103202 Subject Code: 1007

B.A./B.Sc. 2nd Semester

COMPUTER SCIENCE (Programming Using C)

Time Allowed—3 Hours]

[Maximum Marks—75

8

Note:—(1) Attempt any FIVE questions by selection at least ONE question from each section.

(2) All questions carry equal marks.

SECTION—A

- 1. (a) What do you mean by decision tables? How are these different from flowcharts? Illustrate the use of each through suitable examples.
 - (b) Find out the values of X, Y and Z in the following:— $(A2F.8)_{16} = (X)_8 = (Y)_{10} = (Z)_2.$
- 2. Explain the following:
 - (a) Algorithm and its characteristics.
 - (b) ASCII Character Code.

SECTION—B

3. (a) What is meant by hierarchy of operators? Provide a brief outline of all operators supported by C language along with their hierarchy within expressions and suitable examples.

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(Contd.)

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	(b)	What are 'data-types'? What are the data-		
		supported by C language? Illustrate the imported of each.	rtance 8	
4.	Explain the following:—			
		Types of Programming Errors.	7	
		Formatted console I/O Functions.	8	
		SECTION—C		
5.	(a)	How do you define a String? What are S	String	
	functions? How do you create array of strings?			
		Explain.	8	
	(b)	(b) What is an array? What are different types of		
		array? How do you create and use these arr	12	
		Explain.	7	
6.	Differentiate between the following:—			
	(a)	switch and if-else-if statements.	7	
	(b)	for and do-while loops.	8	
		SECTION—D		
7.	Differentiate between the following:—			
	(a)	Union and Structures.	5	
	(b)	Automatic, External and Static variables.	5	
	(c)	call-by-value and call-by-reference.	5	
8.	Explain the following:—			
	(a)	Pointers with Structure.	5	
	(b)	Scope and lifetime of a variable.	5	
	(c)	Recursion.	5	
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