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Exam. Code : 103202 Subject Code : 1027

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

COMPUTER SCIENCE (Programming Using C)

Time Allowed—Three Hours] [Maximum Marks—75

Note :—(1) Attempt any 5 questions.

(2) All questions carry equal marks.

- (a) What is algorithm ? What are its characteristics ?
 Write an algorithm to check whether an input number is a prime number or not.
 - (b) Find out the values of X, Y and Z in the following :

$$(FA.8)_{16} = (X)_8 = (Y)_{10} = (Z)_2$$
 6

2. Explain the following :

(a) Decision Tables

(b) ASCII Character Code.

- 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. 7
 - (b) Why 'C' language is named so ? Discuss its origin and provide the general structure of 'C' language program detailing out every construct in it. 8

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(Contd.)

8

7

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4.	Differentiate between the following :		
	(a)	switch and if-else-if statements	5
	(b)	Union and Structures	5
	(c)	call-by-value and call-by-reference.	5
5.	Explain the following :		
	(a)	Pointers with Structure	7
	(b)	Formatted console I/O functions.	8
6.	(a)	What are the technical reasons for adopt	oting
		Binary Number System in Digital Compute	ers ?
		Explain.	6
	(b)	What are 'data-types' ? What are the data-t	ypes
	supported by C language ? Illustrate the importance		
		of each.	9
7.	Differentiate between the following :		
	(a)	Automatic, External and Static Variables	5
	(b)	printf() and scanf()	5
	(c)	for and do-while loops.	5
8.	Explain the following :		
	(a)	Recursion and its use	7
		Programming Errors and its types.	

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