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GSE/D-22

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PROGRAMMING IN C BCA-116

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

- 1. (a) What is the role of comments? How comments can be written in C?
 - (b) Differentiate between getch(), getche() and getchar().
 - (c) Differentiate between break and continue.
 - (d) What is recursion?
 - (e) Why goto statement should be avoided in a program?
 - (f) How arrays can be initialized?
 - (g) What is meant by typecasting?
 - (h) How can you declare a string in C? $8\times2=16$

P.T.O.

Unit I

Explain structure of a C program using suitable

(a) Explain various data types in C.

2.

(b)

example.

8

8

3.	(a)	What is the difference between constants and						
	٠	variables? How can we declare constants in C?						
		Explain using suitable examples.						
	(b)	Explain various I/O functions in C using suitable						
		examples. 8						
		Unit II						
4.	Desc	ribe various operators in C along with their hierarchy						
	and associativity.							
5.	(a)	Write a program in C to find greatest among three						
		numbers.						
	(b)	Discuss switch statement with the help of suitable						
	(*)	examples. Also discuss all the possible cases in						
		switch statement.						
		Unit III						
6.	(a)	Write a program in C to find the sum of the digits						
,	, ,	of the input number.						
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(b)	What do	? Explain	the			
	various	benefi	ts of using	functions.		8

7. Describe various types of loops in C with the help of suitable examples.

16

Unit IV

8.	Explain	various	storage	classes	in	C	in	detail.		1	6
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What do you mean by array? Explain various types of arrays in detail. Write a program in C to biggest of n numbers.

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