AS-1503

B.C.A. (Part-I) Semester-II Examination

ADVANCED C

Paper—2-ST-2

Tim	e : 1	[Maximum Marks: 60	
	Not	e:—(1) Figures to right indicate full marks.	
		(2) Illustrate your answers with the help of suitable exa	amples.
1.	(a)	What is a string? Explain how strings can be declared and suitable example.	initialized in C using a
	(b)	Write a program in C that reads a string from user using gets(and copy the first string to newly declared string using strrev(), strlwr() and strupr() on these strings.	
		OR	
2.	(a)	Explain the following C functions:	
		(i) strlen()	
		(ii) streat()	
		(iii) strepy().	6
	(b)	What are arrays of pointers to strings? Explain with suitable	e example. 6
3.	(a)	What are functions? Explain using proper example.	6
	(b)	How can functions be used with arrays ? Explain using prop	er example. 6
		OR	
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4.	(a)	Differentiate between calling function by value and calling function with poir State proper example.	iters. 6
	(b)	What is Recursion? Write a program to calculate factorial of a number using a Recufunction.	rsive 6
5.	(a)	How can we nest the structures ? Explain using suitable example.	6
	(b)	What is Union? Explain declaration and initialization of structure with proper exam	nple.
		OR	
6.	(a)	Explain the concept of pointer to structures. Write a suitable example.	6
	(b)	Write a program in C to accept data of three commodities—Keyboard, Mouse Monitor. Prompt user to enter the model name, quantity and price of each p Calculate the bill amount. Make use of structure.	
7.	(a)	How are files opened and closed in C ? Explain using suitable example.	6
	(b)	Explain the following functions:	
		(i) fscanf()	
		(ii) fprintf()	
		(iii) fputs().	6
		OR	
8.	(a)	Explain the following functions:	
		(i) feof()	
		(ii) fwrite()	
		(iii) fgets().	6
	(b)	Explain fprintf() and fscanf() using suitable example.	6
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9.	(a)	Explain fseek() and ferror() using suitable examples.	6		
	(b)	Explain the memory allocation using alloc(). Give a suitable example.	6		
	OR				
10.	(a)	Explain the function line() in C graphics. Write a program to draw a square using line functions.	four 6		

(b) Explain the function circle() in C graphics. Write a program in C which draws a circle at user defined centre with specified radius.

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