AU-191

B.C.A. (Part-I) Semester-II Examination ADVANCED C Paper—2ST2

Time : Three Hours] [Maximum				
Not	e :	-(1) Figures to right indicate full marks.		
		(2) Illustrate your answers with the help of suitable example wherever	necessary.	
1.	(a)	Explain with example the following string functions:		
		(i) strlwr()		
		(ii) strcmp()		
		(iii) strrev()	6	
	(b)	Explain with example how strings can be handled using char array.	6	
		OR .		
2.	(a)	Write a program to read two strings from user. Calculate the length of tw	o strings using	
		strlen() and concatenate them using streat(). Also calculate the length of the	he concatenated	
		string and display it.	6	
	(b)	Explain how strings can be manipulated using arrays of pointers	with suitable	
		example.	6	
3.	(a)	Explain the concept of Local and Global variables with suitable exam	ples. 6	
	(b)	Explain function prototype, function definition and function calling by us	ing an example	
		of function that adds two numbers.	6	
		OR		
4.	(a)	What are different storage classes in C ? Write features of each class.	. 6	
	(b)	Explain the following:		
		(i) Function call by value		
		(ii) Function call by pointer		
		(iii) Recursion.	6	
VOX—35849		(Contd.)		

5.	(a)	Explain how structures are defined using suitable example. How can we c	alculate
		memory size of structure? How are structure members accessed?	6
	(b)	Define union. State its declaration syntax and explain how its members are a	ıccessed
		using suitable example.	6
		OR	
6.	(a)	Compare union with structures using suitable example.	6
	(b)	What is array of structures? Explain using a program which receives data for	3 books
		and prints it on screen. Use the following data:	
		(i) Name of book	
		(ii) Cost of book	
		(iii) No. of pages in book	
		(iv) Name of author.	6
7.	(a)	Explain different file opening modes available in C.	6
	(b)	Explain following functions:	
		(i) fscanf()	
		(ii) fgetc()	
		(iii) fwrite()	6
		OR	
8.	(a)	Write a program to enter following data in a file:	
		Computer Science	
		Dennis Ritchie	
		1986	
		59.76	
		using fprintf function. Read same data using fscanf function.	6
	(b)	Explain following functions:	
		(i) getw()	
		(ii) putw()	
		(iii) fputs()	6
VOX-35849		2	(Contd.)

9.	(a)	Explain how memory can be allocated using malloc() in C with suita example.	able 6
	(b)	Explain line function in C. Write a graphics program to draw a triangle on screen u	sing
		line function three times.	6
		OR	
10.	(a)	Explain dynamic memory allocation with the help of suitable example.	6
	(b)	Explain the following functions:	
		(i) fseek()	

6

(ii) ftell()

(iii) frewind()

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