Bachelor of Science (T.Y.B.Sc.) Sixth Semester

B.Sc. 4518 - Electronics Paper-II (Elective-I) (C-Programming-II)

P. Pages: 2

Time : Three Hours

* 1 0 5 8 *

Max. Marks : 50

GUG/W/18/1345

	Note	 All questions are compulsory and carry equal marks. Use either ANSI or TURBOC for programming. 	
1.		EITHER	
	a)	What is an array? Explain Declaration and initialization of one dimensional array. Write a C – program to store marks of 10 students in an array and find their sum. Marks are inputted through keyboard.	1+4 +5
		OR	
	b)	What is C function? Explain syntax for C function declaration. Write a program with multiple functions that do not communicate data between them.	1+3 +6
2.		EITEHR	
	a)	What is a pointer variable? Explain general form of declaring a pointer variable. Write a C program using pointers to determine the length of a character string.	1+5 +4
		OR	
	b)	How does structure differ from an array? Explain the syntax for defining the structure and structure variables. Write a C program using structure to accept record of an employee containing name, age and salary and display the same as output.	2+4 +4
3.		EITHER	
	a)	What is a data file? Mention the functions used for opening and closing a file. Give their syntax. Write a program to enter 10 integer values in a file "Sample.dat" and display the contents of the file on the screen.	2+4 +4
		OR	
	b)	 Explain the following functions, i) ftell, and ii) fseek. Write a C program that uses the functions ftell and fseek. 	3+3 +4
4.		EITHER	
-	a)	What is symbolic constant? How are symbolic constants created in C++? Explain.	3+7
		OR	

	b)	 Explain the followings with respect to C++ programming: Manipulators, and Operators overloading. 	5+5
5.	a)	State the output of the program given below:	21/2
		<pre># include <stdio.h> void check () main () { check (); check (); check ();</stdio.h></pre>	x4
		<pre>} void check () { static int C = 0; printf ("%d\t", C);</pre>	
	b)	C+=5; } What is union? Explain its need.	
	0)	what is union: Explain its need.	

- c) What is command line argument? Explain
- d) How variables are declared in C++? Explain.
