GANPAT UNIVERSITY

B. TECH 1 Sem - II

REGULAR EXAMINATION MAY-JUNE 2014

2CE101: COMPUTER PROGRAMMING

Time: 3 Hours]   **[Total Marks: 70**

Instructions:

1. Figures to the right indicate full marks.
2. Each section should be written in a separate answer book.
3. Be precise and to the point in your answer.

Section - I

Que. – 1	A	Answer the following questions. 1. Define an array of 10 integers. 2. Define keywords. 3. Give a prototype of function accepting an integer and a float as arguments and returns nothing. 4. How can you define infinite loop using while? 5. List features of C programming Language? 6. Define Constant.	6
	B	Explain the compilation process of C program with diagram.	6

OR

Que. – 1	A	What is C token? Categorize & explain all the C tokens with help of example.	6
	B	Explain the following terms in brief: Operating System, Compiler, Global Variable, Header Files	6
Que. – 2	A	Explain various symbols used in Flowchart and draw the flowchart for finding Factorial of a number given by user.	6
	B	What are trigraph characters? How are they useful? Explain any five of them.	5

OR

Que. – 2	A	Explain basic structure of C language with diagram & example.	6
	B	Explain Conditional operator with suitable example.	5
Que. – 3	A	Explain the multiple if (ladder if) with example. Give the example using it.	6
	B	Explain entry and exit controlled loop with the help of flowchart and example.	6

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Section – II

Que. – 4	A	Write a C program to addition of two 3 X 3 Matrix. Read Two matrices from the user, sum in third matrix & display it.	8
	B	Write a program to reverse the number. (e.g. 5435 -> 5345)	4

OR

Que. – 4	A	Explain arithmetic, relational, logical & bitwise operators used in C with example.	8
	B	State the syntax of Switch-case statement. Explain it with appropriate example.	4
Que. – 5	A	Write a C program to find and print prime numbers between the numbers 1 to n, where the number n should be read from the keyboard.	7
	B	Describe following string functions in C-Language. (1) strcpy( ) (2) strlen( )	4

OR

Que. – 5	A	What are advantages of user defined functions? Write a C program to find factorial of n (user input) with use of function.	7
	B	Write a program that read two strings and concatenate them without using any string function and print the resulting string.	4
Que. – 6	A	write a program to make floyd's triangle. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	6

OR

	A	1. Write the output of following program with explanation.	6

```
#include<stdio.h>
#include<conio.h>
void main()
{
    int x=3,z;
    clrscr();
    z=x++ + ++x;
    printf("x=%d z=%d",x,z);
    getch();
}
```

2. Explain strncat( ) string function with C Program.

	B	Explain: Software, Hardware, Higher level Language and type casting.	6

END OF PAPER

2/2