GANPAT UNIVERSITY B. Tech Semester I (CE/IT/EC/BM) Examination December 2010 101: Computer Programming

Time: 3 Hours]

[Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Figures to the right indicate full marks
- 3. Each section should be written in a separate answer book

SECTION-I

Q-1.	(A)	C program has one and only one main function Justify the statement	I
L.	(B)	What is a modulus operator? What are the restrictions of a modulus operator?	2
	(C)	Explain const keyword with help of program.	2
	(D)	What does the #include directive do?	2
	(E)	Explain the use of #define symbolic constant with the help of example.	4
Q-2.	(A)	Explain the syntax of a switch statement with example. Explain the additional features of for loop with example.	4
	(B) (C)	Write a program to find the number and their sum between 100 and 200 which are divisible by 7.	4
		OR	

O-2 .	(A)	Explain the basic structure of C program.	4
×		What is type casting? Explain it with example.	2
	(B)	what is type casting? Explain it will example.	
	(C)	Write a program to find whether the entered number is palindrome or not.	4
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0-3.	(A)	Explain the difference between the while and do-while statements with example?	4
	(B)	Explain precedence and associativity of operators in c	4
	(C)	Write a program to perform transpose of 3*3 matrices.	4

OR

Q-3.	(A)	Explain the difference between break and continue with help of program. Write a program to perform addition of 3*3 matrices	
	(B)		
	(C)	What will be the output of the following codes? Justify.	
		1.	2.
		void main()	void main()
		{	$\{int a=20, b=7, c;$
		int i;	float d;
		$for(i=1;i \le 6;i++)$	c = a/b;
		{	$\mathbf{d}=\mathbf{a}/\mathbf{b};$
		if(i%2)	printf("%d %f",c,d);
		continue;	getch();
		else	}
		printf("i=%d",i);	
		}	
		}	

SECTION - II

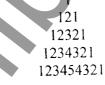
- Explain advantage and disadvantages of the use of the function. **O-4**. **(A)**
 - Describe recursive function. **(B)**
 - write a program to swap even position character with odd position char. **(C)**

Write any two: Q-5.

- Define: local variable, global variable, scope and lifetime (A)
- Differentiate between auto internal and static internal variable with the help of a **(B)** program and its output.
- write a program to check whether the entered string is palindrome or not. (C)
- Explain return type, formal and actual arguments **(D)**

Write any three: Q-6.

- Write a program to take **n** strings and then sort the strings in descending order. **(A)**
- Write a program to print following triangle **(B)**



- Explain 2-D array with example. Also explain initialization of 2-D array. **(C)**
- States commonly used string-handling functions and explain any one of them **(D)** using a sample program for that.

END OF PAPER ---

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