

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 1
 (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. 4
 (B) Explain the additional features of for loop with example. 4
 (C) Write a program to find the number and their sum between 100 and 200 which are divisible by 7. 4

OR

- Q-2. (A) Explain the basic structure of C program. 4
 (B) What is type casting? Explain it with example. 4
 (C) Write a program to find whether the entered number is palindrome or not. 4

- Q-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. 4
 (B) Write a program to perform addition of 3*3 matrices 4
 (C) What will be the output of the following codes? Justify. 4

```

1.
void main()
{
int i;
for(i=1;i<=6;i++)
{
if(i%2)
continue;
else
printf("i=%d",i);
}
}

```

```

2.
void main()
{int a=20,b=7,c;
float d;
c = a/b;
d = a/b;
printf("%d %f",c,d);
getch();
}

```

SECTION - II

- Q-4. (A) Explain advantage and disadvantages of the use of the function. 3
(B) Describe recursive function. 4
(C) write a program to swap even position character with odd position char. 4
- Q-5. **Write any two:** 12
(A) Define: local variable, global variable, scope and lifetime
(B) Differentiate between auto internal and static internal variable with the help of a program and its output.
(C) write a program to check whether the entered string is palindrome or not.
(D) Explain return type, formal and actual arguments.
- Q-6. **Write any three:** 12
(A) Write a program to take **n** strings and then sort the strings in descending order.
(B) Write a program to print following triangle
1
121
12321
1234321
123454321
(C) Explain 2-D array with example. Also explain initialization of 2-D array.
(D) States commonly used string-handling functions and explain any one of them using a sample program for that.

--- END OF PAPER ---