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53 (CS 101) ICPR

2019

**INTRODUCTION TO COMPUTER  
PROGRAMMING**

Paper : CS 101 (Back)

Full Marks : 100

Time : Three hours



***The figures in the margin indicate  
full marks for the questions.***

Answer **any five** questions.

1. Answer in short :  $2 \times 10 = 20$
- (a) What is an algorithm ?
  - (b) What do you mean by program ?
  - (c) What are the differences between while and do-while loop ?
  - (d) What are the uses of getchar() and putchar() ?

Contd.

(e) What are the uses of break and continue statements?

(f) What is an array?

(g) What is the difference between structure and union?

(h) What is a pointer?

(i) What is the difference between variables and constants?

(j) What is a static variable?

2. (a) What are the different types of operators in C language? Explain all the operators with the help of suitable examples. 10

(b) Design an algorithm as well as flowchart for finding out largest number out of three given numbers. 10

3. (a) Write a program to display all prime numbers in between  $M$  and  $N$  (values for  $M$  and  $N$  will be given by user). 10

(b) Write a program to find the  $n$ -Fibonacci numbers. 10

4. (a) Write a program to find the summation of the series

$$1 + x/1! + x^2/2! + x^3/3! \dots x^n/n!$$

10

(b) Write a program to display the all numbers between 1 and 100 which are divisible by 5. 10

5. (a) Write a program to input 10 students' details as structure and display them. 10

(b) Some text is stored in a file (file name "text.txt"). Write a program to read the file and count the number of vowels and consonants appear on it. 10

6. Write short notes on : 5x4=20

(a) Machine language

(b) Header file

(c) Keyword in C

(d) Library function.

