53 (CS 101) INCP

2018

INTRODUCTION TO COMPUTER PROGRAMMING

Paper: CS 101

Full Marks: 100

Time: Three hours

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

Answer any five questions.

- Discuss the following terms in short: 2×10=20
- (i) Computer Memory
- (ii) Computer Language
- (iii) Operating System
- (iv) Algorithm
- (v) Flowchart

- (vi) Variables & Constants in C
- (vii) Structure & Union in C
- (viii) Preprocessor in C
- (ix) C-Loops
- (x) Logical Operators in C.
- (a) Write a C program to multiply two matrices.
- (b) Write C program to display Fibonacci numbers upto 'n'.
- 3. (a) What is the difference between user defined function and library function? Write a user defined function to find factorial of a number passed from mainfunction. 2+8=10
- (b) Write a C program to find sum of the following series:

$$S = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots + \frac{x^n}{n!}$$

4. (a) What are the control statements in C language? Describe.

- (b) Demonstrate the use of pointer in C by using suitable example.
- (a) Write a C program to input 10 students' details as 'structure' and display them. Structure fields (RollNo, Branch, Semester, Mark1, Mark2, Mark3, Total).

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- (b) Store some text in a file (file name "text.txt").
- Write a C program to read the file and count the numbers of characters present.
- 6. (a) Write a C program to find the numbers of digits present in an integer. 10
- (b) Write a C program to find the largest of three numbers.

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