BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BTECH/IMSc. SEMESTER: II BRANCH: CSE/IT/EEE/ECE/PHYSICS/MATHS SESSION: SP/19 SUBJECT: CS101 PROGRAMMING FOR PROBLEM SOLVING TIME: 3 Hours **FULL MARKS: 50 INSTRUCTIONS:** 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. ______ Q.1(a) Describe how float and double data type values are stored in computer memory. Explain with [5] examples. Q.1(b) Draw a flow chart to generate all numbers which are divisible by 3 but not divisible by 7. [5] Write a short note on iterative statements that C language supports. [5] Q.2(b) Write a C Program to enter a decimal number and display the binary equivalent of this number. Ī5Ī Write the necessity of arrays in one dimension and multidimension with examples for C language. Q.3(a)[5] Write a C program to count the total number of non-zero elements in a two-dimension array of any [5] Q.3(b)order for any user input data elements. Describe scope of variables for C language. Explain with an example. [5] Write a C program to sort the array of n numbers in ascending order through a user defined function. Q.4(b)

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Q.5(a) List the advantages and disadvantages of pointers in C language. Explain with examples.

Q.5(b) Write a C Program to calculate factorial of a number using recursion.

The input will be entered by user.