

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2025)

CLASS: BTECH/I.MSC.
BRANCH: CSE/AI ML/ECE/EEE/MATHS

SEMESTER : II/ADD
SESSION : SP/2025

SUBJECT: CS24101 / CS101 PROGRAMMING FOR PROBLEM SOLVING
TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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Q.1(a)	Write a flow chart to print/find largest among three input numbers.	[2]	1 3
Q.1(b)	Write a flow chart to print/calculate the factorial of an Input/given number.	[3]	1 3
Q.2(a)	Write at least two errors in C language and give at least two examples of each error.	[2]	2 1
Q.2(b)	Explain the process of Converting source code to Object Code for a program in C.	[3]	2 1
Q.3(a)	Write at least two operators in C and explain with at least two examples of each operator.	[2]	3 1
Q.3(b)	Write a C program to swap two input numbers/variables and display this neither using third/extra variable nor using any arithmetic operator.	[3]	3 3
Q.4(a)	Correct the error if any, then Find/Write the Output of the following C code segment. Justify your output. #include<stdio.h> void main() { int i = 0; while (i < 10) { if (i == 4) { i++ continue; } printf("%d\n", i); i++; } }	[2]	4 2
Q.4(b)	Find the output of the following C Code Segment and explain why it is giving this answer/result. main() { int i,c; for(i=1; i< 200; i++); { c= 28 % 2 ; c = c- 3; } printf("\n c= %d \t i = %d ", c,i); }	[3]	4 2
Q.5(a)	Write a C program to print sum of odd numbers and sum of even numbers stored in an array of N integers.	[2]	5 2
Q.5(b)	Write a C program to find/print the Mean, Median and Mode of at least 10 Input numbers.	[3]	5 3