BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2023)

CLASS: BCA   SEMESTER : I[st]
BRANCH: BCA   SESSION : MO/2023

SUBJECT: CN101 PROGRAMMING AND PROBLEM SOLVING USING C
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)	What are different symbols used in a flow chart? Explain.	[2]	1	1,2
Q.1(b)	Describe the general structure of a C program.	[3]	2	1,3
Q.2(a)	What do you mean by data types? What are the basic types available in C language?	[2]	1	1
Q.2(b)	Write a program to find the largest of three numbers using ternary operator	[3]	2	3
Q.3(a)	What is an identifier? List the rules for constructing identifiers.	[2]	1,2	3
Q.3(b)	Illustrate the if and if-else statement with syntax and example.	[3]	1,2	2,3
Q.4(a)	Differentiate between while and do-while loops.	[2]	3	2
Q.4(b)	Write a program to compute sum and average of N numbers as supplied by the user at run time.	[3]	1,2	2,3
Q.5(a)	What is array? List the advantages of array.	[2]	1,2	1
Q.5(b)	Explain with suitable example how to declare and initialize 1Dimensional array.	[3]	2	1,2

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