

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: BCA
BRANCH: BCA**

**SEMESTER : 1ST
SESSION : MO/2024**

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 | What is a problem? What are various categories of problem? Discuss the problem-solving steps in details. | [5] 1 | 1,3 |
| Q.2 | What is an operator? List the operators used in C language and explain the uses of bitwise operators in detail. | [5] 1,2 | 1,3 |
| Q.3 | Illustrate the conditional control statements available in C with proper syntax and example. | [5] 1 | 3 |
| Q.4 | Differentiate between WHILE and DO-WHILE statement. Explain the purpose of break statement in the loop body with example. | [5] 1 | 2,3 |
| Q.5 | Define array. Explain with suitable example how to declare and initialize 1D array. | [5] 1,2 | 1,3 |

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