

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

**CLASS: BAM**  
**BRANCH: ANIMATION & MULTIMEDIA**

**SEMESTER : III**  
**SESSION : MO/2023**

**SUBJECT: AM203 BASICS OF PROGRAMMING**

**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.
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|--------|---|-----|-----|
| Q.1(a) | What is a computer program? Discuss the different hardware components to run a program.                           | [5] | 1 4 |
| Q.1(b) | Discuss the following:<br>(i) Applications of computer program<br>(ii) Algorithm to find the sum of given numbers | [5] | 1 5 |
| Q.2(a) | Discuss the different data types available in c programming language.   | [5] | 2 2 |
| Q.2(b) | Discuss the various parts of c programming. Also explain the 'Hello World' program in c programming language.     | [5] | 2 2 |
| Q.3(a) | Compare and contrast between arithmetic operators and relational operators using c programming language examples. | [5] | 3 4 |
| Q.3(b) | Write a c program to explain the different types of variables available in c programming language.                | [5] | 3 5 |
| Q.4(a) | Explain if...else decision-making statement in c programming language.  | [5] | 4 2 |
| Q.4(b) | Print numbers from 1 to 10 using two different c programming looping statements.                                  | [5] | 4 5 |
| Q.5(a) | Explain different types of number data types with the help of c programming.                                      | [5] | 5 2 |
| Q.5(b) | How a variable is different from an array? Explain with the help of suitable c programming example.               | [5] | 5 2 |

**:::::23/11/2023 E:::::**