

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

CLASS : MCA
BRANCH : MCA

SEMESTER : III
SESSION : MO/14

SUBJECT : MCA300: JAVA PROGRAMMING

TIME : 3 HOURS

FULL MARKS: 60

INSTRUCTION :

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
 2. Candidates may attempt any 5 questions maximum of 60 marks.
 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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- Q1. (a) What are symbolic constants? What are their advantages? [6]
(b) What are the different data types in java? Give the size of each. [6]
- Q2. (a) What is decision making in java? [6]
(b) What is switch statement? Write an example program to illustrate. [6]
- Q3. (a) What is counter controlled while loop? What is sentinel controlled loop? 3 [6]
(b) What are nested loops? Write an example program to illustrate it. [6]
- Q4. (a) List all the methods of String class. Give the use of each with appropriate examples. 2 [6]
(b) Write a program to create a 2-dimensional array and display its elements one by one. [6]
- Q5. (a) List all the methods of Character class. Give the uses of each with examples. [6]
(b) What is assertion? What are checked and unchecked exceptions? [6]
- Q6. (a) Write a program to write to a binary file. 2 [6]
(b) List all the methods of File class. 2 [6]
- Q7. (a) Give the inheritance hierarchy of Java AWT and Swing classes. [6]
(b) What is event driven programming? [6]