

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

CLASS: IMSC
BRANCH: PHY/CHEM

SEMESTER : III
SESSION : MO/19

SUBJECT: CA201 OBJECT ORIENTED PROGRAMMING USING JAVA

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) Explain 6 features of object oriented programming. [5]
Q.1(b) Write short note on different access specifiers in java. [5]

- Q.2(a) Explain any five functions of String class with an example. [5]
Q.2(b) Explain properties of string class and show the difference between final and immutability nature. [5]

- Q.3(a) Write down all difference between method overloading and overriding. [5]
Q.3(b) Explain following Keywords with appropriate example [5]
1. Super 2. Finalize() 3. toString()

- Q.4(a) Explain different Types of inheritance. Justify why multiple inheritance not possible without interface. [5]
Q.4(b) Write a java program to calculate gross salary & net salary taking the following data. [5]
Input: empno, empname, basic
Process:
DA=50%of basic
HRA=25%of basic
CCA=Rs240/-
PF=10%of basic
PT=Rs100/-
Use : constructor Overloading Concept and abstract class concept

- Q.5(a) Define Exception, error and give an example to handle exception? [5]
Q.5(b) Write a java program to find the details of the students eligible to enroll for the examination (Students, Department combined give the eligibility criteria for the enrollment class) using **interfaces** [5]

