

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

CLASS: BCA
BRANCH: BCA

SEMESTER: III
SESSION: MO/2022

SUBJECT: CA201 OBJECT ORIENTED PROGRAMMING USING JAVA

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q1 (a) Write four differences between procedure oriented programming approach and object oriented programming approach.	[2] •	CO1	1
Q1 (b) Write a simple program in Java to take two numbers as user input and display their sum. Explain the process of execution of the program	[3] •	CO4	1,2
Q2 (a) Write a short note on Java Virtual Machine (JVM).	[2] •	CO2	2
Q2 (b) Write about operators in Java with appropriate examples.	[3] •	CO1	2
Q3 (a) Illustrate about labelled statement in Java with example.	[2] •	CO2	2,3
Q3 (b) Write a program in Java to create an integer array of 5 elements and then find the biggest number in it and also display it.	[3] •	CO4	3
Q4 (a) Write about different jump statements in Java.	[2] •	CO2	1,2
Q4 (b) Discuss in detail about different data types in Java with suitable examples.	[3] •	CO2	2
Q5 (a) How can you define and call a Java method?	[2] •	CO1	2
Q5 (b) Explain in brief about method overloading with valid example.	[3] •	CO4	2,3

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

CLASS: BCA
BRANCH: BCA

SEMESTER : III
SESSION : MO/2022

SUBJECT: CA201 OBJECT ORIENTED PROGRAMMING USING JAVA

TIME: 3:00 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.

- ~~Q.1(a)~~ What is abstraction? [2]
~~Q.1(b)~~ Write a short note on Java Runtime Environment (JRE). [3]
~~Q.1(c)~~ Write five salient features of Java as a programming language. [5]

- ~~Q.2(a)~~ What are non-primitive data types in Java? [2]
~~Q.2(b)~~ Explain in brief about scope of variables in Java. [3]
~~Q.2(c)~~ Write a program in Java to sort an array of 5 integers into descending order. [5]

- ~~Q.3(a)~~ What is an interface? [2]
~~Q.3(b)~~ Explain in brief about the constructors in Java. [3]
~~Q.3(c)~~ Write a program to explain passing object reference in Java methods. [5]

- ~~Q.4(a)~~ What is shadowing? [2]
~~Q.4(b)~~ Write a short note on StringBuffer class. [3]
~~Q.4(c)~~ Explain the process of method overriding in Java with a relevant example. [5]

- ~~Q.5(a)~~ What is an applet? [2]
~~Q.5(b)~~ Classify Java stream classes. [3]
~~Q.5(c)~~ Discuss in details about the life cycle of a Java applet. [5]

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