

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
Faculty of IT and Computer Science
BCA/IMCA2017–18Mid Semester Examination

Semester:

Subject Code: 05101251/05301251

Subject Name: Core Java

Date: 31/03/2018

Time: 10:00 to 12:00

Total Marks: 40

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Answer the following.

[10]

- (a)
1. What is the use of final variable?
 2. What is Bytecode?
 3. How to import all the classes from a particular package?

[3]

(b) Answer the following questions.

[7]

1. Which component is used to compile, debug and execute java program?
A) JVM B) JDK C) JIT D) JRE
2. Java uses _____ character set to represent text data.
A) ASCII B) Bytecode C) Unicode D) EBCDIC
3. _____ keyword is used to access members of the base class
A) Extends B) super C) final D) Base
4. Which of these access modifier can be used for a class so that it's members can be accessed by a different class in the different package?
A) Public B) Protected C) Private D) Default
5. When class is declared as abstract , then ____
A)Its object can not be created B) Its subclass can not be created
C) It can not inherit any class D) It can not have methods\
6. Automatic type conversion in Java takes place when
A) Two type are compatible and size of destination type is shorter than source type.
B) Two type are compatible and size of destination type is larger than source type.
C) Two type are compatible and size of destination type is equal of source type.
D) All of the above
7. Java programming language is the platform_____which provides the capability of being moved easily from one computer system to another.
A) dependent B) independent C) relevant D) irrelevant

Q.2 Answer the following.

[10]

1. How final keyword is used in java?
2. What is method overriding? How to prevent method overriding in java?
3. Discuss the usage of Super keyword.

4. Draw the diagram of compilation and execution of java code.
5. Write a java method to count sum of given numbers using variable length argument in java.

Q.3 Attempt any TWO. [10]

- 1 Write a short note on abstract class with example.
- 2 Write a short note on JVM
- 3 What is method overloading? Explain method overloading with example.

Q.4 Answer the following. [10]

- (a) Explain following features of java in detail [5]
1. Platform Independent
 2. Robust
 3. Distributed
 4. Multithreaded.
- (b) Explain interface with example. What are the differences between abstract class and interface? [5]

OR

- (b) What is package? Why it is important? How can you define a package explain with suitable example? [5]