

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**B.Tech Summer 2018 - 19 Examination**

**Semester:6****Subject Code:03114380****Subject Name: Concept of JAVA Technology****Date: 09/05/2019****Time: 10:30 am to 01:00 pm****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 Objective Type Questions (Answer all the following questions)****(15)**

1. Which of these packages contain classes and interfaces used for input & output operations of a program?  
(a) java.util                      (b) java.                      (c) java.io                      (d) All of the mentioned
2. Which of these class is not related to input and output stream in terms of functioning?  
(a) File                      (b) Writer                      (c) InputStream                      (d) Reader
3. Which of these keywords is not a part of exception handling?  
(a) try                      (b) finally                      (c) thrown                      (d) catch
4. Which of these methods can be used to make the main thread to be executed last among all the threads?  
(a) stop()                      (b) sleep()                      (c) join()                      (d) call()
5. Which of these keywords is used to define interfaces in Java?  
(a) interface                      (b) Interface                      (c) intf                      (d) Intf
6. Java does not support \_\_\_\_\_ inheritance.
7. javac is a Java \_\_\_\_\_ which provides the keywords and syntax along with data types, operators that are used in Java.
8. A class inherits state (attribute) and behavior (method) from its \_\_\_\_\_.
9. When two different objects interpret a single message differently and respond differently, it is known as \_\_\_\_\_.
10. \_\_\_\_\_ is a concept in OOP which hides unimportant implementation details from other objects.
11. A block can be called explicitly. State (T/F). \_\_\_\_\_.
12. "this" keyword can be used in static context. State (T/F) \_\_\_\_\_.
13. Static block is having higher priority than main method (T/F) \_\_\_\_\_.
14. What are the features of java?
15. What is JVM?

**Q.2 Answer the following questions. (Attempt any three)****(15)**

- A) Explain the following term.  
(a) Finalize()                      (b) final                      (c) wrapper class                      (d) throw
- B) What is an Abstract class? Can main method be defined inside an Abstract class?
- C) What is difference between JAVA and C++?
- D) What is a static block explain with an example? Can more than one static block be defined inside a single class? Explain.

- Q.3** A) What is Multithreading in java? Multithreading Example with Synchronization? (07)  
B) What is polymorphism and different types of polymorphism? (08)

**OR**

- B) What is an exception? Give examples of built-in exceptions in java. (08)

- Q.4** A) Explain Class, Abstract Class and Interface with snippet of code? (07)

**OR**

- A) What is a StringBuffer class? What are the different methods of StringBuffer class? (07)

- B) Write short notes on the following: (08)  
i) TreeSet Class  
ii) LinkedList Class  
iii) Collection Class