

2020

Time : 3 hours

Full Marks : 80

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer five questions in which

Q. No. 1 is compulsory.

1. Choose the correct alternative of the following :

(a) What is the process of defining more than one method in a class differentiated by method signature ?

- (i) Function overriding
- (ii) Function overloading
- (iii) Function doubling
- (iv) None of these

(b) What would be the behaviour if this () and super () used in a method ?

- (i) Runtime Error

- (ii) Throws Exception
(iii) Compile Time Error
 (iv) Runs Successfully
- (c) What is the process of defining a method in terms of itself, that is a method that calls itself?
- (i) Polymorphism (ii) Abstraction
(iii) Encapsulation (iv) Recursion
- (d) Which of the following statements are incorrect?
- (i) Public members of class can be accessed by any code in the program
(ii) Private members of class can only be accessed by other members of the class
 (iii) Private members of class can be inherited by a subclass, and become protected members in subclass
(iv) Protected members of a class can be inherited by a subclass
- (e) Which of these cannot be declared static?
- (i) Class (ii) Object
(iii) Variable (iv) Method

TJ-176/1

(2)

Contd.

- (f) Which of these method of string class can be used to test to strings for equality?
- (i) lsequal () (ii) lsequals ()
(iii) Equal () (iv) Equals ()
- (g) If a class inheriting an abstract class does not define all of its function then it will be known as?
- (i) Abstract (ii) A simple class
 (iii) Static class (iv) None of these
- (h) Which of these class is not related to input and output stream in terms of functioning?
- (i) File (ii) Writer
 (iii) Input Stream (iv) Reader
2. What do you mean by Polymorphism? What is runtime polymorphism on dynamic method dispatch? Explain with a suitable example program.
3. Define an Applet. How is an Applet different from an application? Describe the lifecycle of an applet.
4. What is package in java? How can you create your own package and add classes in that? Explain with the help of example.

TJ-176/1

(3)

(Turn over)

1003
2011

5. What is Constructor ? Explain Constructor overloading with example. Write difference between Constructor and Finalizer.

6. What are the inbuilt streams available in Java I/O package ? Discuss data I/P and O/P streams.

7. Write a java program to display all vowels available in a String input taken by user.

8. Differentiate any two of the following :

(a) Checked Exception and Unchecked Exception

(b) Finalizer and Garbage Collector

(c) Abstract Classes and Interfaces

9. Write short notes on any two of the following :

(a) JVM

(b) Event Handling in Java

(c) Multithreading

(d) Wrapper Class

————— ❖ —————
2443 2 241