

5. What are the different forms of Inheritance ? Explain, with a suitable example, how multiple inheritance is accomplished in Java ?
6. (i) What are two types of exceptions in Java ? What are the differences between them ?
(ii) Why do you use multiple catch blocks ? Explain it with suitable examples.
7. (i) Explain the life cycle of thread in Java ?
(ii) Describe with example how Java implements synchronization?
8. Differentiate any two of the following :
(a) Applet and Frame
(b) Grid Layout and Border layout
(c) Event Source and Event listeners
(d) Object oriented Programming and Procedure Oriented Programming.
9. Write notes on any two of the following :
(a) Encapsulation
(b) Polymorphism
(c) Multithreading in Java
(d) Interface
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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) The Java compiler :
(i) Creates executable code
(ii) Translates Java source code to byte code
(iii) Creates assembly code
(iv) Produces JVM code
- (b) Which of the following is not a member of the Java, Long Package ?
(i) Math
(ii) String
(iii) List
(iv) Exception

- (c) JVM is a :
- (i) Debugger
 - (ii) Compiler
 - (iii) Assembler
 - (iv) Interpreter
- (d) AWT stands for :
- (i) Advanced Windowing Toolkit
 - (ii) Abstract Windowing Toolkit
 - (iii) Abstract windowing Termkit
 - (iv) Applet Windowing Toolkit
- (e) Which of the following methods is used to print the description of an exceptions ?
- (i) Print stack ()
 - (ii) Trace Exceptions ()
 - (iii) Print stack trace ()
 - (iv) Print description ()
- (f) What is the default thread priority used in Java?
- (i) 1
 - (ii) 3
 - (iii) 5
 - (iv) 10

- (g) Which interface Provides the capability to store object using a key-value pair ?
- (i) Map
 - (ii) List
 - (iii) Set
 - (iv) Collection
- (h) Which access specifier is used for describing Applet class ?
- (i) Private
 - (ii) Public
 - (iii) Protected
 - (iv) (i) & (ii)

2. Why Java is considered as best Language for Internet Application ? What is an applet ? Write an Applet Java program to run an audio file.
3. Describe the relationship between an object and its defining class. How do you create an object ? Explain with an example.
4. (i) What do you mean by constructor chaining ? Write a program that implements constructor chaining
- (ii) Describe the difference between method overloading and method overriding.