

Time : 2-00 Hours]

[Max. Marks : 50

Q.1 Write the following

- i) Explain features of JAVA in detail. 05
- ii) Write a note on JVM & Bytecode. 05

OR

- i) Explain typical structure of JAVA program with appropriate example. 05
- ii) Explain different types of variables in JAVA with example. 05

Q.2 Write the following

- i) Explain Inheritance in Java with its types and example. 07
- ii) Explain Method Overloading with example. 03

OR

- i) Explain different types of Constructors in JAVA with example. 07
- ii) Explain Method Overriding with example. 03

Q.3 Write the following

- i) Explain life cycle of thread in detail. 05
- ii) Explain try and catch block in exception handling with example. 05

OR

- i) What is thread ? Explain the various ways of creating thread in JAVA with example. 05
- ii) Explain the concept of Interface. 05

Q.4 Write the following

- i) Explain different types of Layout Manager in JAVA with example. 10

OR

- i) Explain different swing components in Java with example. 10

Q.5. Attempt any ten out of twelve :-

- i) Define Class. 10
- ii) JRE stands for _____

- iii) JDK stands for _____
- iv) What is Polymorphism ?
- v) Which of the below is not a Java Profiler?
a) JProfiler b) Eclipse Profiler c) JVM d) JConsole
- vi) Who invented Java Programming?
a) Guido van Rossum b) James Gosling c) Dennis Ritchie d) Bjarne Stroustrup
- vii) Which component is used to compile, debug and execute the java programs?
a) JRE b) JIT c) JDK d) JVM
- viii) What is the extension of java code files?
a) .js b) .txt c) .class d) .java
- ix) Which environment variable is used to set the java path?
a) MAVEN_Path b) JavaPATH c) JAVA d) JAVA_HOME
- x) What is not the use of "this" keyword in Java?
a) Referring to the instance variable when a local variable has the same name
b) Passing itself to the method of the same class
c) Passing itself to another method
d) Calling another constructor in constructor chaining
- xi) What is the extension of compiled java classes?
a) .txt b) .js c) .class d) .java
- xii) Which exception is thrown when java is out of memory?
a) Memory Error b) Out Of Memory Error
c) Memory Out Of Bounds Exception d) Memory Full Exception
