

Sub: Java/ Java Programming
(BCA440-18/BCA-440-20/BCA-CS-440-20/BCA23-402/BCAC23-402)

Time: 2.00 pm to 4.30 pm

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labeled diagrams wherever necessary.

(5)

- The _____ keyword is used to create a subclass.
 - a) implements
 - b) extends
 - c) inherits
 - d) derives
- The _____ block is always executed, regardless of whether an exception is thrown or not.
 - a) try
 - b) catch
 - c) finally
 - d) throw
- _____ are objects that listen for specific events.
 - a) Handlers
 - b) Listeners
 - c) Receivers
 - d) Observers
- _____ component is used to compile, debug and execute the java programs.
 - a) JDK
 - b) JRE
 - c) JIT
 - d) JVM
- The _____ package provides classes for networking in Java
 - a) java.net
 - b) java.io
 - c) java.lang
 - d) java.util

(5)

1. Event handling in Java is based on the delegation event model.
2. Swing components are lightweight.
3. AWT stands for Active window toolkit.
4. A Frame is a top-level container.
5. A package is a collection of classes and interfaces.

(10)

1. What is the difference between JDK and JRE?
2. What is the use of this keyword in java?
3. What is Event handling?
4. What is purpose of Java Scanner class? Write Syntax.
5. Why is Java a platform independent language?
6. What do you mean by Java Package?

Q. 4. Answer the following in detail (Solve any 6) (30)

1. Explain the Thread Life Cycle in detail.
2. Explain Java Method overloading with suitable example.
3. Define Inheritance. Explain why Java doesn't support Multiple inheritance with example.
4. Explain different features of Java programming.
5. Write Java program to check whether the entered year is Leap year or not.
6. What is class? Explain different access specifiers used in Java.
7. Explain type of Java constructors with example.

Q. 5. Answer the following in detail (Solve any 1) (10)

1. Define Exception handling. Explain types of Java Exceptions with example.
 2. Define Java Swing? Explain any four Swing components with suitable example.
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