



- iv) In Java applet, stop() method can be invoked
- a) once
 - b) twice
 - c) many times
 - d) not at all.
- v) Which of the following statements is true regarding constructors ?
- a) All cases must define a constructor
 - b) A constructor can be declared private
 - c) A constructor can return a value
 - d) A constructor must initialize all the fields of a class.
- vi) What is the return type of read() method of InputStream class ?
- a) String
 - b) Float
 - c) Void
 - d) None of these.
- vii) Which of the following JSP expressions are valid ?
- a) `<%= "Sorry"+"for the"+"break"%>`
 - b) `<%= "Sorry"+"for the"+"break";%>`
 - c) `<%= "Sorry"%>`
 - d) `<%= "Sorry";%>`
- viii) A class can be converted to a thread by implementing the interface
- a) Thread
 - b) Runnable.
- ix) Which is not allowed in EJB programming ?
- a) Thread Management
 - b) Transient Fields
 - c) Listening on a Socket.



- x) What happens if Database Updation code is written in `ejbPassivate()` method and if this method is called ?
- Exception is thrown
 - Successfully executes the Database Updation code
 - Compilation error occurs indicating that Database Updation code should not be written in `ejbPassivate()`
 - `ejbStore()` method is called.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. 3 × 5 = 15

- Write a program to create a window and set its title with "IETE" using AWT.
- How will you call parameterized constructor and overridden method from parent class in sub-class ?
- Explain object serialization in Java with suitable example.
- In Java, explain how to call a constructor from another.
 - Indicate the difference between PATH and CLASSPATH.

3 + 2

- Can a super class object reference a sub-class object ? Explain.
 - Illustrate the uses of 'this' and 'super' keywords.
 - Illustrate the uses of 'integer' and 'Integer' keyword.

1 + 2 + 2

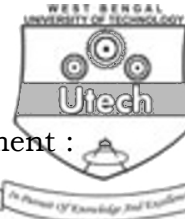
GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

- What are Adapter classes ? 3
 - What is multithreading ? What are the two different ways to create multithreaded program ? 3
 - What is the difference among final, finally and finalize ? 3

3



- d) Discuss each part of the following statement :
`System.out.println();` 2
- e) How does Java implement platform independence ? 2
- f) What is the difference between an instance member and a class member ? 1
- g) What is JAR ? Write few options used with JAR. 1
8. a) What is polymorphism ? Differentiate between compile time and runtime polymorphism with the help of complete java program. 3 + 3 + 3
- b) What is the role of garbage collection ? 3
- c) What are packages ? Explain the steps to create packages. 3
9. a) What is the difference between character based and byte based IO streams ? Discuss different types of character and byte based streams. 3 + 6
- b) Write a program to input three integers through keyboard and print the largest among them. 6
10. a) Describe the different stages in the life-cycle of an applet.
- b) Distinguish between `init()` and `start()` methods.
- c) What is synchronization ? When is it used ?
- d) Give an example where interface can be used to support multiple inheritances. 4 + 3 + 3 + 5
11. Write short notes on any *three* of the following : 3 × 5
- a) Abstract class
 - b) Exception handling
 - c) Interface
 - d) Applet viewer
 - e) JVM.

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