



5. You want a class to have access to members of another class in the same package. Which is the most restrictive access that accomplishes this objective?
- a. public                      b. private                      c. protected                      d. default access
6. Which of the following statements will convert a string s into i of int type?
- A. `i = Integer.parseInt(s);`  
 B. `i = (new Integer(s)).intValue();`  
 C. `i = Integer.valueOf(s).intValue();`  
 D. `i = Integer.valueOf(s);`  
 E. `i = (int)(Double.parseDouble(s))`
- a. A,B,C&E                      b. A,B,C&D                      c. A,C,D&E                      d. A,B&D
7. FileNotFoundException is thrown by\_\_\_\_\_
- a. FileOutputStream,FileWriter                      b.FileInputStream,FileReader  
 c. FileInputStream, FileOutputStream, File                      d. All of the above
8. Which of the following will store elements in an unordered way and does not contain duplicate elements?
- a. Map                      b. List                      c. Set                      d. ArrayList
9. The default layout manager for applet is\_\_\_\_\_
- a. GridLayout                      b. CardLayout                      c. BorderLayout                      d.FlowLayout
10. Container is a subclass of\_\_\_\_\_
- a. Window                      b. Frame                      c. Panel                      d. Component

**PART B (10 x 2 = 20 Marks)**

11. Define DNS and mention the types of various servers.
12. Write a HTML code to divide the window into two columns using frames.
13. Is JVM platform independent? Justify the statement.
14. What is the use for finally and final keywords in Java?
15. Define interface and give an example for interface inheritance.
16. Write a Java program to count the number of occurrences of a substring in a given string.
17. Write a simple program to print the series of odd numbers using multithreading concept
18. Distinguish between array and array list.
19. Write a java code using applets to display a message “Welcome to Java” with a bigger font size and a different font colour compared to background.
20. Write a Java code using applets to handle a key event

**PART C (5x14= 70 Marks)**

21. a) (i) What are the various ways of connection possible for connecting to internet?  
Explain. (7)
- (ii) Discuss about the planning process involved in creating a website and how it can be published

**(OR)**

- b) (i) Explain about the FTP servers and FTP clients in detail. (7)
- (ii) Discuss about the attributes of form. Write a HTML code using forms for an biodata registration using five different controls.

22. a) (i) Explain about the characteristics of Java and Jump statements available in Java with examples.

**(OR)**

- b) Why multiple inheritance not supported by java? Define dynamic method dispatch. Write a java program using multilevel inheritance, super keyword and dynamic method dispatch for calculating the total marks of a student and displaying the grade, student details by getting the input from the user.

23. a) Distinguish between Error and Exception. Explain about the various keywords associated with exception handling in Java with suitable examples

**(OR)**

- b) (i) Discuss about user defined packages and in-built packages in Java (7)
- (ii) Write a Java program using String handling to sort the strings present in an array in descending order and display only the sorted array strings that starts with the letter 'b' and 'f' with their positions. (7)

24. a) Write a java program to perform the following operations using the streams. (7+7)
1. To get multiple lines of text from the user as an input, append it to a file and display the number of words present in the file after appending.
  2. To read and write the values of object to a file.

**(OR)**

- b) (i) Explain about the methods involved in multithreading concept in Java with a example. (7)

(ii) Discuss about the various operations that can be performed on Array List and HashSet with suitable examples. (7)

25. a) Distinguish between applet and application. Explain about lifecycle of an applet and delegation event model in applet with suitable examples

**(OR)**

b) (i) Write a Java applet program using event handling concept to draw four different geometric objects based on the option selected by the user in drop-down list. (7)

(ii) Explain about Border Layout with an example. (7)

\*\*\*\*\*