

- Q. 1** **Attempt any four of the following** 16
- Differentiate between an interface and a class.
 - What is constructor ? Explain its types with examples
 - Explain following terms
1) append() 2) insert() 3) replace() 4) delete()
 - What is inheritance ? Explain Multilevel Inheritance in with Example.
 - What is type casting? Why is it required? How is it achieved in Java?
 - What is an array? How is one-dimensional array declared, created and initialized in Java?
 - List and Explain of Features of JAVA . Explain any 5.
 - Explain arithmetic operator in detail.
- Q. 2** **Attempt any four of the following** 16
- Create validate method that takes integer values as a parameter , If the age is less than 18 , throw the ArithmeticException otherwise print a message welcome to vote
 - What is an exception? Explain the exception-handling mechanism in Java.
 - Explain Lifecycle of Thread in JAVA.
 - Write a note on Java ByteArrayOutputStream class.
 - Draw and Explain Exception class Hierarchy of JAVA.
 - Write a client-server program that make a communication between client and server like chat app.
 - Write a note on Java ByteArrayInputStream class.
 - Write a note on JAVA File class Constructors and Method in Details.
- Q. 3** **Attempt any four of the following** 16
- Explain Delegation and Event model in Brief.
 - What is the use of Adapter class ? Explain with Example.
 - Explain following components with Constructor , Methods and Example
1) Button 2) Checkbox
 - List Different Types of Layout Managers . Explain GridLayout and CardLayout in detail.
 - What is Anonymous Inner class ? Explain with Example .
 - Draw and Explain Collection Hierarchy of JAVA.
 - Explain following components with Constructor , Methods and Example
1) Label 2) Choice
 - Write a AWT program to design simple " Form " to Accept Name and PRN..
- Q. 4** **Attempt any Three of the following** 12
- What do you understand by tokens? Briefly explain various types of tokens available in Java.
 - List and Explain methods of StringBuffer Class.
 - What do you understand by multithreading? Explain how to create thread using Thread class.
 - Explain any two byte-stream classes that can be used for reading content from a file.
 - Write a program to create following three Buttons Name "Red" , "Green" , "Blue" , Which when clicked should change the Background Color of the window Appropriately.
 - Explain Following Terms
1) ActionEvent 2) WindowEvent
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