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**#207, Kambipura, Mysore road, Banglore-74**

**Department of Computer Science & Engineering**

**SUB : ADVANCED JAVA AND J2EE**

**MODULE 1 QUESTION BANK**

1. What are Enumerations? Explain with an example. Explain values() and valueOf() methods with an example.
2. What are Annotations? Explain how to obtain Annotations at run time by use of Reflection
3. Demonstrate Single Member Annotations with an example.
4. What is Autoboxing/Autounboxing in Java? Discuss it with an example. Explain how it is better when compared to Type Wrappers.
5. Explain various Retention Policies in java.
6. Explain the following methods i) Ordinal ii)CompareTo iii)equals
7. Explain the following built-in Annotations with example @Override @Inherited @Retention.
8. Write a Java program that demonstrates how Autoboxing/Autounboxing takes place in expression evaluation.
9. Demonstrate how enumerations can be applied as class types.

**MODULE 2 QUESTION BANK**

1. Demonstrate linked list for collections with an example.
2. What is Collection Framework? Explain the methods defined by collection interface.
3. Explain any three legacy classes of java’s collection framework.
4. Explain the methods defined by List iterator interface.
5. Explain the constructors of HashSet class with an example program.
6. Explain the constructors of TreeSet class with an example program.
7. Discuss the following collection interfaces i)Set ii)List
8. Demonstrate Linked List for collectons with an example.

**MODULE 3 QUESTION BANK**

1. Explain with example how to modify a string.
2. Explain with example the following methods of StringBuffer class.

Append() b) Insert() c)Reverse() d)Replace()

1. Explain with example the following Character Extraction methods

a.CharAt() b. getChars() c. GetBytes() d. ToCharArray()

1. Explain the following

Equals() versus == ii) StartsWith() and EndsWith() iii) CampareTo()

1. What is String in JAVA? Write a java program that demonstrates any four constructors of string class.
2. Explain StringBuffer? How is it different from string.
3. Explain how to check occurrences of a substring or character in a substring

**MODULE 4 QUESTION BANK**

1. Explain the Life cycle of Servlets. Explain how cookies can be handled using servlets.
2. List and Explain core classes and interfaces in javax.servlet Package.
3. Explain any two cookies methods.
4. Define JSP. Explain different types of JSP tags by taking suitable example.
5. Write a java servelet program that demonstrates how parameters can be accessed from HTML.
6. Explain how session tracking can be done in servelets.
7. Explain how cookies can be handled using JSP.
8. Explain how cookies can be handled using servelets.
9. Write a short note on HTTP request and HTTP response.
10. Write a java program to add a cookie.

**MODULE 5 QUESTION BANK**

1. Describe various steps of JDBC with code snippets.
2. Explain various JDBC driver types.
3. Explain types of Result sets in JDBC.
4. List and explain with example various statement objects in JDBC.
5. Write a Java program to execute a database transaction.
6. Explain the types of exceptions occurred in JDBC.