

Advanced Java and J2EE Super Imp

VTU previous year papers analysis by YouTuber *Afnan Marquee*. Watch the video now!

Module 1

In module 1, the questions have mainly been asked from the following topics:

- Autoboxing and Unboxing
- Enumerations
- Annotation
- Java.lang.enum
- Type wrapper

These are few of the questions which had been asked to your seniors:

Autoboxing and Unboxing

Compare and contrast autoboxing and unboxing in java with an example.

Enumerations

What are enumerations? Explain two predefined methods

Build a java program to create an enumeration class of seasons and demonstrate usage of values() and valueOf() methods.

Explain construction of enumeration with an example.

Annotation

What are Annotations? Explain the following built in annotations with an example program:

@Override @Inherited @Retention

Describe 4 annotations which are imported from java.lang.annotations

Elaborate special kind of annotation that contains no members with its class.

Java.lang.enum

Explain the following methods of java.lang.enum with an example:

i) Ordinal ii) compareTo() iii) equals()

Type wrapper

What do you mean by type wrapper? Explain numeric type wrapper with an example.

Module 2

The questions in this module have been asked from the following topics:

- Collection framework
- HashSet, TreeSet, ArrayList, Queue
- Legacy classes

These are few of the questions which had been asked to your seniors:

Collection Framework

What is collection framework? Explain the methods defined by collection interface.

What are the various changes that collection framework underwent recently?

HashSet, TreeSet, ArrayList, Queue

Explain the constructors of HashSet class with an example.

Explain the constructors of TreeSet class with java pgm to create Tree set collection.

Demonstrate ArrayList class for collection with an example.

Write the syntax declaration of Queue Interface and explain any four methods defined by queue.

Explain the methods defined by DeQueue.

Legacy classes

Explain any four legacy classes of Java's collection framework.

Explain four legacy methods defined by vectors.

Module 3

The questions from this module are asked from the following topics:

- String and its methods
- StringBuffer class and its methods
- String Builder and Character Extraction methods

String and its methods

What is string in java? Write a program that demonstrates any four constructors of string class.

Differentiate between equals() and == with respect to string comparison.

Explain the following methods:

substring(), concat(), replace(), trim()

Write a Java program which prompts the user for the name of a state and then displays that state in capital.

StringBuffer class and its methods

Explain the following methods of StringBuffer class:

append(), insert(), reverse(), replace()

String Builder and Character extraction methods

Explain string builder.

Explain the following character extraction methods:

charAt(), toCharArray()

Module 4

The questions from this module are asked from the following topics:

- Servlets and its programs
- Core classes and interfaces
- Cookies
- HTTP

The following questions were asked to your seniors:

Servlets and its programs

Explain the difference between servlets and CGI programs

Write a java servlet program that demonstrates how parameters can be accessed from HTML

Define JSP. Explain the different types of JSP tags by taking suitable example.

Explain lifecycle of servlet

Write a Java servlet program to accept two parameters from webpage and find the sum of them and display the result in webpage. Also give necessary html script to create webpage

Core classes and interfaces

List and explain core classes and interfaces in javax.servelet package

Cookies

What are cookies? Explain two methods of cookies and how they are handled in JSP.

Write a program to create with name "username" and cookie value "abc". Also, display stored cookie in webpage.

HTTP

With a code, explain how to handle HTTP get requests and HTTP post requests.

Module 5

The questions that have been asked from this module are from the following topics:

- JDBC drivers
- Code snippets for JDBC
- Other imp terms

The following questions were asked to your seniors:

JDBC drivers

Explain four types of JDBC drivers

Explain three types of exception occurred in JDBC

Code snippets for JDBC

Write a Java Program to

- i) Execute a database transaction
- ii) Open a connection
- iii) Connect a database using URL
- iv) Connect using ID/Password

Other concepts and imp terms

- i) Transaction Processing
- ii) Updatable Result set
- iii) Callable Statement Object
- iv) Prepared Statement Object

Explain different types of statement object in detail.