

SUBJECTCODE:501

SUBJECT NAME: JAVA Programming

Unit 1 : Introduction to java

✚ Answer the following : (Short Questions)

- 1) What is mean by JAVA ?
- 2) List out the features of JAVA?
- 3) Difference between C++ and JAVA.
- 4) What is class?
- 5) What is JVM?
- 6) What is JRE?
- 7) What are different keywords in JAVA?
- 8) What is syntax of declaring classes in JAVA?
- 9) Difference between Primitive and non-primitive data types.

✚ Answer the following : (Long Questions)

- 1) Explain features of JAVA?
- 2) Explain JVM?
- 3) Explain JRE in detail?
- 4) To write the steps of installation of JAVA language?

Unit 2 :Classes and Object

✚ Answer the following : (Short Questions)

- 1) What are different types of inner classes ?
- 2) Does Constructor creates the object ?
- 3) Difference between == and .equals() ?
- 4) What are the common uses of "this" keyword in java ?
- 5) What are wrapper classes ?
- 6) What one should take care of, while serializing the object?
- 7) What are the methods of Object Class ?
- 8) Which access specifier can be used with Class ?
- 9) What is a Final Class ?
- 10) What is an immutable class ?

✚ Answer the following : (Long Questions)

- 1) What are the methods of Object Class ?
- 2) Describe what happens when an object is created in Java ?
- 3) Difference between Abstract and Concrete Class ?
- 4) Difference between object instantiation and construction ?
- 5) When do you get ClassCastException?
- 6) hat is the benefit of inner / nested classes ?
- 7) Explain Static nested Classes ?
- 8) Difference between Class#getInstance() and new operator ?
- 9) What are different ways of object creation in Java ?
- 10) Explain about anonymous inner classes ?

Unit 3 :Collection

✚ Answer the following : (Short Questions)

- 1) What is Java Collection?
- 2) What are the types of Java Collections?
- 3) What are the interfaces in Java Collections?
- 4) What are the types of interface used in the Java collections?
- 5) What are the classes in the Java collection framework?
- 6) What is an algorithm in Java Collection Framework?
- 7) What is the use of the list interface in the Java collection?
- 8) What are the main classes of the list interfaces?
- 9) What are the uses of the set interfaces in the Java Collections?
- 10) What are the different types of classes implemented in the Set interfaces?

✚ Answer the following : (Long Questions)

- 1) What are maps interfaces in the Java Collections?
- 2) What are the types of the main implementing classes in the map interfaces?
- 3) What are the different types of collections views being provided by the Map interface?
- 4) What are the queues in the Java collection framework?
- 5) What is Iterator in the Java Collections Framework?
- 6) What are the different types of ways where you can Iterate over a list?
- 7) What is the Enumerator of the Java collection Framework?
- 8) What is Deque in the Java Collections framework?
- 9) What are the different types of features of the Java Collections framework?
- 10) What are the differences between the Java collection and the Java list?

Unit 4 :File and Exception Handling

+ Answer the following : (Short Questions)

- 1) What is an exception in Java?
- 2) How does exception handling work in Java?
- 3) What are exception handling keywords in Java?
- 4) What is the purpose of the throw and throws keywords?
- 5) How can you handle an exception?
- 6) Explain the Java exception hierarchy.
- 7) How can you catch multiple exceptions?
- 8) What is the difference between checked and unchecked exceptions in Java?
- 9) What is the difference between throw and throws keyword in Java?
- 10) What is the difference between an exception and error?

+ Answer the following : (Long Questions)

- 1) What is the OutOfMemoryError in Java?
- 2) What are chained exceptions in Java?
- 3) How do you write a custom exception in Java?
- 4) What is the difference between final, finally, and finalize in Java?
- 5) What happens when an exception is thrown by the main method?
- 6) What is a try-with-resources statement?
- 7) What is a stacktrace and how does it relate to an exception?
- 8) What are the advantages of Java exceptions?
- 9) Can you throw any exception inside a lambda expression's body?
- 10) What are the rules that we need to follow when overriding a method that throws an exception?

Unit 5 : Applet, AWT and Swing Programming

✚ Answer the following : (Short Questions)

- 1) What Is Awt?
- 2) What Is An Event In Swing?
- 3) What Is An Event Handler In Swing?
- 4) What Is A Layout Manager?
- 5) Which Containers Use A Border Layout As Their Default Layout In Swing?
- 6) What Method Is Used To Specify A Container's Layout?
- 7) Which Containers Use A Flowlayout As Their Default Layout?
- 8) Which Method Of The Component Class Is Used To Set The Position And Size Of A Component?
- 9) What Is The Difference Between InvokeAndWait() And InvokeLater()?
- 10) Why Should Any Swing Call Back Implementation Execute Quickly?

✚ Answer the following : (Long Questions)

- 1) What Is The Lifecycle Of An Applet?
- 2) What Is An Event And What Are The Models Available For Event Handling?
- 3) What Are The Advantages Of The Event-delegation Model Over The Event-inheritance Model?
- 4) What Are Types Of Applets?
- 5) Difference Between Paint() And PaintComponent()?
- 6) How Are The Elements Of A GridBagLayout Organized?
- 7) What Is The Diff Between Choice And The List?
- 8) When Should The Method InvokeLater() Be Used?
- 9) What Is The Relationship Between Clipping And Repainting?
- 10) What Is The Difference Between A Window And A Frame?