

Duration: 02.30 Hrs

Total Marks: 75

Q.1

Answer the following:

- a. Explain working of for loop, enhanced for loop and nesting for loop in JAVA. 08  
 OR  
 a. Discuss the characteristics of JAVA language. 08  
 b. With an example, explain the working of if and nested if...else statement in JAVA. 07  
 OR  
 b. Explain operators used in JAVA. 07  
 c. Explain statements in JAVA. 05  
 OR  
 c. What is constant and give its types with example. 05

Q.2

Answer the following:

- a. What is exception? Explain its types with example. 08  
 OR  
 a. Explain java API packages and give their package name and their classes. 08  
 b. Explain life cycle of Thread. 07  
 OR  
 b. Explain hierarchical representation of java.awt.package. 07  
 c. Explain catch and finally statement. 05  
 OR  
 c. What is method overriding? 05

Q.3

Answer the following:

- a. Write a program in JAVA to create a Menu bar with Submenu. 08  
 OR  
 a. What is Swing? Give its characteristics and packages. 08  
 b. Explain applet tag and add it to HTML file with example. 07  
 OR  
 b. Explain Applet lifecycle. 07  
 c. Describe various sections of web page. 05  
 OR  
 c. Explain local and remote applet with diagram. 05

Q.4

Answer any **THREE** of the following:

- a. Explain object and classes in java with example. 15  
 b. Explain JVM.  
 c. How to access interface variables? Give example.  
 d. How to add and hide a class to package?  
 e. Explain Drawing arcs in JAVA.  
 f. Explain PARAM in applet.