

(3 Hours)

Total Marks: 100

- N.B.** (1) Question No. 1 is compulsory.
(2) Attempt any four from the remaining six questions.
(3) Figures to the right indicate full marks.

- Q.1 (a) What is package? Write steps to Create package and explain Package Concept Using all the access modifiers with Suitable example. [10]
(b) Describe Java Program Steps in order to get connectivity to database along with example. [10]
- Q.2 (a) Write a program to display JLabel and JButton using JFrame in Swing. [10]
(b) What is Interface? Write java program to implement interface. [10]
- Q.3 (a) Explain how Exceptions are handled by Using try ,catch, finally, throw and throws keyword with suitable Example. [10]
(b) What are Inner Classes and Abstract Classes? Explain with Suitable java program & Example. [10]
- Q.4 (a) State the five Layouts in Layout Manager for java AWT. Show the Layouts displayed by each of these Layout. [10]
(b) Write a program of JDBC to Insert a value in a Database. [10]
- Q.5 (a) What is Multithreading? Explain with Suitable diagram Thread Life Cycle. [10]
(b) Explain Input Stream and Reader Classes. [10]
- Q.6 (a) Write a Program to Create TextField, Checkbox, and Buttons, Labels, TextArea & List Using AWT package. [10]
(b) What is Inner Classes and Abstract Classes? Explain with Suitable java program & Example. [10]
- Q.7 Write short Notes on: (Any four) [20]
a) Java and C++
b) Object Serialization & Deserialization
c) Applet Life cycle
d) final keyword
e) Wrapper Classes