

(3 Hours)

[Total Marks : 80

- N.B. : (1) Question No.1 is Compulsory.
(2) Attempt any four from Q.2 to 7.

1. Write short notes on any four of the following:- 20
 - (a) List the characteristics of Java sockets.
 - (b) Compare Applet and Application.
 - (c) What is Cookies? Explain with simple program.
 - (d) Compare JSP and Servlets.
 - (e) Difference between Input stream and output stream.

2.
 - (a) Explain different types of layout manager in detail? 8
 - (b) What are the Different types of EJB & Explain EJB Architecture with neat diagram? 7

3.
 - (a) What are available drivers in JDBC? What does Class.forName () method do? 8
 - (b) Explain the callback methods in Entity beans. 7

4.
 - (a) Explain how Exception handling is done in java. Write a program to demonstrate use of throw Keyword. 8
 - (b) What is object serialization? What is use of serialVersionUID? 7

5.
 - (a) What is static method & static variable Explain with Suitable example? 8
 - (b) What is advantage of putting business logic in EJB over stored procedure? 7

6.
 - (a) What are servlets? Explain Servlets life cycle in detail with example? 8
 - (b) Explain the different resultset constant & resultset types? 7

7.
 - (a) Explain why java don't support multiple inheritance. Write a program to demonstrate Use of Interface. 8
 - (b) When a client request is sent to the servlet container, how does the container choose which servlet to invoke? 7