

[5155]-25
M.E. (Computer Engineering)
ADVANCED INTERNET PROGRAMMING
(2008 Pattern) (Elective -III)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) Attempt any five questions out of 6 questions.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Figures to the right indicate full marks.*

- Q1)** a) Draw & Explain N-tire architecture, also explain challenges in design of N-tire architecture? [8]
b) Draw & explain the importance of resolver in DNS server? [7]
c) What is DOM? Explain it with suitable example? [5]
- Q2)** a) Which design pattern is used to decouple presentation tier and business tier? Assume suitable data and draw class diagram for the same. [5]
b) Explain in details role of container, types of containers used in J2EE architecture. [7]
c) Write short note on: [8]
i) Struts frame work
ii) J2EE specification
- Q3)** a) Give the definition of Java applets and explain with suitable example?[6]
b) Write short note on: [8]
i) JS functions
ii) JS operators
iii) JS variables
iv) JS events

- c) How to create JS object? How to access object properties and object method? [6]
- Q4)** a) Draw & Explain four major phases of JSP life cycle? [6]
b) What are the disadvantages of CGI? How they can be overcome by servlet? [6]
c) What are the methods that HTTP protocol supports to retrieve data from server? Explain in detail. [8]
- Q5)** a) Explain how servlet calls service () method to process a client's request? [6]
b) Write short note on Java Beans. [6]
c) Write a sample program for database connectivity using JDBC? [8]
- Q6)** a) Explain the following concepts in terms of Evolution of Portal [8]
i) Information searching
ii) Information dissemination
iii) Collaboration
iv) Business service integration
b) Define internationalization and localization? Explain its goal in detail? [6]
c) What are the steps to send email using Java Mail API? Explain it? [6]

