



OR

Q6 a) Write short notes on design pattern: Factory Pattern.

b) Which design pattern will you choose to “Convert the interface of a class into another interface clients expect.” Why.

c) Give sample C++ code for showing how an iterator pattern is used.

Q7 a) Which Java technology will you choose to connect to different data sources uniformly.

b) Session enterprise beans will be chosen to represent your data in memory like say customer, product, Agree or disagree, please explain your answer.

c) What is the need for technology like JAVA RMI for software development.

OR

Q 8 a) Compare and contrast EJB 2.0 and EJB 3.0

b) Write short notes on JAX-WS.

c) Give a sample code for setting up a JDBC connection.

Q9 a) Identify some of the challenges and issues in web based clients design.

b) Explain concepts through simple examples for the following terms in Web based systems:

i) XML ii) JSP tags iii) Web server iv) URL

OR

Q 10a) Discuss the HTTP protocol in brief.

b) Discuss the JSF technology's applications in brief.

c) What are active X controls.

Q11 a) What are NET assemblies and what metadata do they use.

b) Compare components and web services.

c) Write short notes on .NET as a computing platform.

OR

Q12 a) How does one create COM components in C++, give example code.

b) Write short notes on Interfaces.

c) What are windows DLL's and how are they different from COM DLLs.