

- Q. 2 Attempt the following (Any THREE) (Each of 5Marks) (15M)**
- (a) Explain in brief the various tags in WSDL document.
 - (b) Explain in detail the data structures used in UDDI.
 - (c) What is JAX-WS? How it is useful for describing SOAP web services?
 - (d) How web services are related to distributed computing?
 - (e) What is the Enterprise Service Bus and how does it relate to SOA?
 - (f) List the advantages and disadvantages of SOAP.
- Q. 3 Attempt the following (Any THREE) (Each of 5Marks) (15M)**
- (a) List and explain the various Http methods required for creating RESTful Web Services.
 - (b) List and explain the important points to be considered when constructing a standard URI.
 - (c) Describe the core constraint of RESTful system.
 - (d) Explain how data exchange happens using JSON.
 - (e) Explain OAuth 2.0 with an example?
 - (f) Explain annotations for processing HTTP request methods?
- Q. 4 Attempt the following (Any THREE) (Each of 5Marks) (15M)**
- (a) What is Windows Communication Foundation (WCF)?
 - (b) Giving example explain how to define a Windows Communication Foundation Service Contract.
 - (c) Define quality of service for Web services.
 - (d) With neat figure illustrate the major layers of the Windows Communication Foundation (WCF) architecture.
 - (e) Explain different tasks that are required to build a WCF application
 - (f) Explain the Features of WCF in detail?
- Q. 5 Attempt the following (Any THREE) (Each of 5Marks) (15M)**
- (a) Write a short note on WSDL message exchange patterns.
 - (b) Explain annotations used in RESTful web service.
 - (c) How a .Net application can communicate with a Java application?
 - (d) List and explain various applications of Web services.
 - (e) List the advantages and disadvantages of Statelessness.
