JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012
WEB SERVICES
(COMMON TO COMPUTER SCIENCE, COMPUTER SCIENCE & ENGINEERING, INFORMATION TECHNOLOGY)

Time: 3hours   **Max. Marks: 60**

Answer any five questions
All questions carry equal marks
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1. Explain the following technologies in brief with reference to web based applications:
   a) Client/Server
   b) Java RMI
   c) Role of XML in distributed computing
   d) CORBA

2.a) Explain the concept of Service Oriented Architecture(SOA).
  b) Briefly explain how the distributed computing evolved and matured?

3.a) What are the key benefits and challenges associated with web services?
  b) Discuss the core web services standards.

4.a) Explain briefly the tools and technologies used in web service implementation.
  b) What are the core building blocks of web services? Explain the basic steps of implementing web services.

5.a) Explain the structure of a SOAP message with attachments using a block diagram.
  b) Explain the basic SOAP message exchange model.

6.a) Explain with a suitable example, the steps involved in writing a java client with Apache Axis (open source Java based SOAP implementation).
  b) What are the known limitations of SOAP?

7.a) With a block diagram describe the life cycle of a web service indicating the role of WSDL and UDDI.
  b) With suitable code snippets explain the sections of a WSDL file.

8.a) Briefly describe the .NET framework with respect to web services.
  b) Explain XML encryption.

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