

B.Tech. DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2011

BRANCH: IT (FULL-TIME)

VI SEMESTER – REGULATIONS 2008

IT9351 SERVICE ORIENTED ARCHITECTURE

Time: 3 hrs.

Max.Marks:100

Answer All Questions

Part – A (10X2 = 20 Marks)

1. Describe the architecture of SOA.
2. What are the technical benefits of using SOA?
3. What is the relation between SOA and web services?
4. Explain the role of XML in web services.
5. Justify the need for web service composition.
6. What is a workflow system? Explain.
7. What are the limitations of RMI over XML based web services?
8. Highlight the features of JAXP API.
9. What is a transaction in web application?
10. List the XML based security standards.

PART B (5 X 16 = 80 Marks)

11. (i) Explain the steps involved in the creation and consumption of web services in java with an example. (10)

(ii) Highlight the features of .NET and J2EE framework. (6)

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- (a) (i) What are the advantages of SOA over Object oriented paradigm? (8)  
(ii) Compare RMI, CORBA and DCOM with web service. (8)

{OR}

(b) (i) Design a SOA based solution for a library automation. Discuss the implementation issues associated with it.

13.

- (a) (i) Identify the web services in an online tutoring system. (8)  
(ii) List the workflow languages and highlight their features. (8)

{OR}

(b) (i) What are the QoS parameters associated with web service composition? (8)  
(ii) What is business process management? Explain. (8)

14.

- (a) (i) Describe the features of WSDL. (8)  
(ii) List the features of DOM, SAX and XSL. (8)

{OR}

(b)  
(i) List and highlight the tools associated with web services implementation. (8)  
(ii) Explain the web service discovery mechanism. (8)

15.

- (a) (i) Why security is an important issue in web services? Explain. (8)  
(ii) Explain the security features supported in XML. (8)

{OR}

(b) (i) Explain the transaction management issues in web services. (8)  
(ii) What is meta data management? Explain. (8)