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B.Tech. DEGREE END SEMESTER EXAMINATIONS, OCT/NOV 2013

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. What is a web service? Explain its uses.
2. Justify the statement "Services are autonomous".
3. Describe the model of SOA.
4. What are the advantages of using XML?
5. What is a legacy system?
6. What is BPM? Explain its uses.
7. List the tools associated with java based web services.
8. Explain the role of JAXB.
9. Justify the need for authenticity in web services.
10. What is a digital signature?

PART B (5 X 16 = 80 Marks)

11. (i) Explain the steps involved in the creation of java based web services. (8)
(ii) Explain how .NET based web services are consumed? (8)
12.
(a) (i) Highlight the features of SOA. (8)
(ii) Explain the history of web services. (8)

(OR)

(b) (i) Explain how a legacy system can be exposed as a web service. (8)

(ii) List the different standards associated with SOA. (8)

13.

(a) (i) Explain the service discovery mechanism used in SOA. (8)

(ii) Highlight the uses of SOA for multi channel access. (8)

(OR)

(b) (i) Explain the steps involved in web service composition. (8)

(ii) Highlight the features of BPEL4WS. (8)

14.

(a) (i) Highlight the features of JAX API. (8)

(ii) Explain the structure of SOAP. (8)

(OR)

(b)

(i) Compare SOAP with JAX-RPC. (8)

(ii) How the interoperability is achieved .NET and J2EE? Explain. (8)

15.

(a) (i) Discuss the various security issues in SOA. (8)

(ii) Highlight the advantages of XML based security. (8)

(OR)

(b) (i) Highlight the issues in web service transaction. (8)

(ii) List the different meta data that are managed in web services. (8)