B.E/B.Tech. (PART TIME) DEGREE EXAMINATIONS, APR/MAY 2014

BRANCH: IT

VI SEMESTER – REGULATIONS 2009

PTIT9351 SERVICE ORIENTED ARCHITECTURE

Time: 3 hrs.   Max.Marks:100

Answer All Questions

Part – A (10X2 = 20 Marks)

1. What are web services? Write two services and their uses.
2. What are the technical benefits of SOA?
3. Describe the components of SOA. .
4. What is the role of XML in SOA.
5. What is multi channel access in SOA?
6. What is flow language? Explain its uses.
7. What are the advantages of JAX-RPC over Java RMI?
8. What is the use of JAXB?
9. What is a meta data in web services?
10. What is a digital signature? Explain its uses.

PART B (5 X 16 = 80 Marks)

11. (i) Explain the process of creating and consuming a web service using C# .NET.   (8)

    (ii) What are the steps required for creating a web service and realizing SOA
         using java?   (8)

12.
(a) (i) Explain the characteristics of SOA.   (8)
    (ii) Explain the history of distributed system based computing.   (8)

(OR)

(b) (i) Write the differences between Object oriented and service oriented paradigm. (8)

(ii) List the web service specifications and their features. (8)

13.
(a) (i) Consider a University Library web site which provides required details for both the faculty members and students. Identify the services associated with this system and explain their interactions. (8)

(ii) Describe the features of BPEL. (8)

(OR)

(b) (i) Explain the layered architecture for providing multi-channel access. (8)

(ii) Compare WSFL with BPEL. (8)

14.
(a) (i) Highlight the features of JAXR (8)

(ii) What is the influence of WSDL and UDDI in SOA? Explain. (8)

(OR)

(b)
(i) Explain how web services can collaborate with each other with an example. (8)

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

15.
(a) (i) Explain the web service security standards. (8)

(ii) Explain the uses of XML signature. (8)

(OR)

(b) (i) Compare the traditional and business web service transaction models. (8)

(ii) Explain the messaging model supported in SOA. (8)