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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Second Semester, M. Tech - Computer Science and Engineering (MCSE)
Semester End Examination; June - 2016
Web Services

Time: 3 hrs Max. Marks: 100 *Note:* Answer *FIVE* full questions, selecting *ONE* full question from each unit. UNIT - I 1 a. What are web services? Describe the essential XML vocabularies that constitute Web 5 services. b. Briefly explain the technology motivation for B2B and B2C. 5 c. Explain typical web service architecture in an enterprise scenario. 10 2 a. What is Customer Relation Management (CRM)? Explain the classes of problems that need 10 to be addressed by web service technology in CRM. b. What is XML? Discuss the components in writing an XML document with example. 10 **UNIT - II** 3 a. Write DTD for the following, 7 CARDINFO (Name, Designation, Email ID, HomTel, OfficeTel). b. State the differences between XML schema and DTD. 3 c. Explain the structure and content of SOAP message exchange model. 10 4 a. Explain the data types used in SOAP with example. 10 b. Briefly explain the following SOAP (Fault) elements: i) <fault code> ii) <fault string> 5 iii) <fault factor> iv) <detail> c. Write a note on SOAP binding. 5 **UNIT - III** 5 a. What is WSDL? Explain Web service policy using WSDL. 10 b. Explain why UDPI can be described on being both a name service and a directory service. Mention the types of enquiries that can be made. Also explain how web services are 10 discovered. 6 a. What is the use of binding elements in WSDL? Explain the structure of WSDL. 10 b. What are the key aspects of services-orientation principles? Explain how service-orientation 10 principle addresses design issues.

P15MCSE23	Page No 2
P15MCSE23	Page No 2

UNIT - IV

7 a.	Discuss the common pit falls of adopting SOA.	10
b.	List and explain any five common characteristics of contemporary SOA.	10
8 a.	With an example, illustrate the anatomy of service oriented architecture.	10
b.	Elaborate on common tangible benefits of SOA.	10
	UNIT - V	
9 a.	With suitable diagram and example explain reliable messaging.	10
b.	Write a note on:	
	i) Metadata exchange,	10
	ii) Orchestration.	
10a.	Explain the concept of addressing with respect to advanced messaging and security.	10
b.	Explain service orientation and object orientation.	10

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