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

(An Autonomous Institution affiliated to VTU, Belagavi)

Second Semester, M. Tech - Computer Science and Engineering (MCSE)

Semester End Examination; June - 2017

Web Services

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. Explain different categories of businesses interested in communicating through web services along with communication pattern with an example. 10
- b. With the help of an example and block diagram, mention the chain of events that triggers when an item is purchased from a retail store in B2B scenario. 10
- 2 a. Define service oriented architecture. What is the best route to deliver services using SOA? Explain. 5
- b. Identify and describe the contribution of SOAP to web services. 5
- c. Explain customer relations management. Identify and discuss different classes of problems that need to be addressed by web services technology. 10

UNIT - II

- 3 a. Define XML. Discuss the elements and attributes of XML with example. 10
- b. Identify and explain with example, the different techniques which help in defining the XML semantics. 10
- 4 a. With an example, discuss the structure and format of simple object access protocol. 10
- b. Define SOAP encoding. Explain different data types used for encoding. 10

UNIT - III

- 5 a. Describe the steps that happen between three participants during web service invocation with a block diagram. 10
- b. Explain different special XML elements used to accomplish web services description with example. 10
- 6 a. Describe different terminologies used by UDDI specification. 10
- b. What is service publication? What are the different factors involved in service publication? Explain. 10

UNIT - IV

- 7 a. How services can encapsulate logic services communicate and get designed? Explain with a block diagram. 10
- b. List and describe the misperceptions associated with SOA. 10

- 8 a. How the logical components of SOA establish a level of enterprise logic abstraction and how these components inter relate? Discuss with a diagram. 10
- b. Explain service reusability and service contract with a diagram. 10

UNIT - V

- 9 a. Define Architecture. How different architecture evolved depending on other? Explain. 10
- b. Briefly explain different primitive message patterns with a diagram. 10
- 10 a. List and define different parts of end point references and message information header provided by WS-addressing. 10
- b. Discuss the terms and concepts expressed by the WS eventing specification with a diagram. 10

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