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Question Paper Code : 20745

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Seventh Semester

Information Technology

IT 6801 — SERVICE ORIENTED ARCHITECTURE

(Common to Computer Science and Engineering)

(Regulations 2013)

(Also Common to PTIT 6801 – Service Oriented Architecture for B.E. (Part-Time) –
Computer Science and Engineering – Regulations 2014)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List out the advantages of XML over SGML.
2. Identify some Xpointer functions with their purposes.
3. List the disadvantages of DOM.
4. Mention the advanced features of XSLT.
5. Define service oriented architecture.
6. Give some common principles of service orientation.
7. Show the difference between abstract and concrete service description.
8. Identify some types of Message Exchange Patterns.
9. Mention the goals of performing a service-oriented analysis.
10. Show the structure of common WS-BPEL process definition.

PART B — (5 × 13 = 65 marks)

11. (a) (i) Determine the rules of XML document structure. (6)
- (ii) Demonstrate the need of Namespace in XML. (7)

Or

- (b) Discriminate the XML schema elements supported by W3C standard.

12. (a) Outline the use of XSLT for document publishing. Illustrate the process for converting XML document to HTML document.

Or

- (b) Derive the process of parsing XML document using SAX. Identify the various error handler methods.

13. (a) (i) List out the primary characteristics of service oriented architecture. (6)
(ii) Summarize the common tangible benefits of SOA. (7)

Or

- (b) Give a note on three primary service layers for service oriented architecture.

14. (a) (i) Describe the structure of a SOAP message. (6)
(ii) Outline the concept of UDDI. (7)

Or

- (b) Give a detailed note on WS-Atomic transactions.

15. (a) Explain the steps involved in service modeling process.

Or

- (b) (i) Give the skeleton of the Coordination Context construct in WS-Coordination. (6)
(ii) Outline the primitive SOA support in J2EE. (7)

PART C — (1 × 15 = 15 marks)

16. (a) Evaluate the steps involved in processing XML database using JAXB with a simple case study.

Or

- (b) (i) Summarize the design guidelines for web services. (5)
(ii) Specify the WS-Coordination registration and completion process with neat sketches. (10)