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Question Paper Code : 50771

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Seventh/Eighth Semester

Computer Science and Engineering

IT6801 – SERVICE ORIENTED ARCHITECTURE

(Common to Information Technology)

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What is XML ?
2. What is XML Document Prolog ?
3. What is DOM ? List the DOM interfaces.
4. List the disadvantages of SAX.
5. List any four characteristics of Contemporary SOA.
6. What are fundamental parts of SOA framework ?
7. What is UDDI ?
8. List any four pitfalls of SOA.
9. What is service modeling process ?
10. Write any four attributes of 'invoke' element of BPEL.

PART – B

(5×16=80 Marks)

11. a) What is an XML namespace ? Elaborate the different types of XML namespaces with an example for each. (16)
- (OR)
- b) How XML schema helps in structuring an XML document ? Explain XML schema types with an example. (16)



12. a) Examine DOM parsing for a "purchase order" xml file that contains bill to and send to warehouse details provided as XML schema with DocBuilder Output. (16)
- (OR)
- b) Examine SAX parsing for invoicing a customer's order XML file. (16)
13. a) Illustrate the functionalities of Application Service Layer in terms of utility service and wrapper service. (16)
- (OR)
- b) How Orchestration service layer works to link process logic to service interaction within the workflow logic? Explain. (16)
14. a) Show the WSDL document consisting of abstract and concrete parts that collectively describe a service endpoint. (16)
- (OR)
- b) How the challenge of coordinating messages is accomplished by Message exchange patterns? (16)
15. a) Classify service model logic as service operation candidates and service candidates with basic building block activities. (16)
- (OR)
- b) Demonstrate WS-Security framework in terms of the 'security' element with an example. (16)
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