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## Question Paper Code : 80602

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Seventh Semester

Computer Science and Engineering

IT 6801 — SERVICE ORIENTED ARCHITECTURE

(Regulations 2013)

Time : Three hours                                         Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Give the rules for well formed documents in XML.

2. What is a XML namespace?

3. Define a XML parser.

4. Write a simple stylesheet using XSL.

5. List out some characteristics of Contemporary SOA.

6. How loose coupling concept achieved in SOA?

7. Sketch the anatomy of a SOAP message.

8. List out some primitive MEPs.

9. Give the step-by-step process in the service oriented analysis.

10. Write the syntax for getVariableData function in WS BPEL.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Create a document type definition that defines the structure for email message, further create a XML document that reference to the created document type definition.                                   (8)

    (ii) With examples explain internal and external DTD.                (8)

    Or

    (b) Explain in detail about the XML schema and XML files.            (16)

12. (a) (i) Differentiate DOM and SAX based XML parsing. (6)

       (ii) Explain SAX based parsing with example. (10)

Or

(b) (i) Give a brief note on Modeling databases in XML. (8)

       (ii) With example show how XSLT can transform an XML document into HTML. (8)

13. (a) Compare SOA with client-server and distributed internet architectures. (16)

Or

(b) Summarize the various principles of service orientation in detail. (16)

14. (a) Discuss in detail about Orchestration and Choreography. (16)

Or

(b) Explain in detail about Atomic Transaction Process with suitable diagrams. (16)

15. (a) Identify the various steps involved in service oriented modeling elaborate them in detail. (16)

Or

(b) Illustrate in detail about the WS — BPEL with code snippets. (16)

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