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Reg. No.:

Question Paper Code: 53242

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY, 2019.

Seventh/Eighth Semester

Information Technology

IT 6801 — SERVICE ORIENTED ARCHITECTURE

(Common to Computer Science and Engineering)

(Regulation 2013)

(Also common to PTIT 6801 — Service Oriented Architecture for B.E. (Part – Time) — Seventh Semester — Computer Science and Engineering — Regulations 2014)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. How tags in XML are defined? Give example.
- 2. What is XML document type definition? Give example.
- 3. Outline the functions performed by an XML parser.
- 4. What is XSL?
- 5. Define service oriented architecture.
- 6. What is a distributed system?
- 7. Define a Web service.
- 8. What is UDDI?
- 9. Define loose coupling.
- 10. What is Web service composition?

PART,B — $(5 \times 13 = 65 \text{ marks})$

11. (a) Write about X files. How to identify the valid documents.

Or

(b) (i) Explain XML namespaces with an example.

(ii) Outline an XML schema with an example.

(7)

12.	(a)	(i) Outline the XML document object model with an example. (7)
		(ii) Outline the working of a SAX parser. (6)
٠	•	\mathbf{Or}
	(b)	Outline the process of modeling databases in XML with an example. (13)
13.	(a)	What are the components of service oriented architecture? How components in service oriented architecture inter-relate? Give example.
•		Or
. • • .	(b)	What is service orientation? Outline the common principles of service orientation. (13)
14.	(a)	What is WSDL? Explain the WSDL document structure with an example. (13)
	(b)	What is SOAP? Explain the SOAP messaging framework with a diagram. (13)
15.	(a)	Highlight the features of Web service business process execution language and outline the structure of the same with an example. (13) Or
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	(b)	What is J2EE? Write a detailed note on SOA support in J2EE. (13)
		PART C — $(1 \times 15 = 15 \text{ marks})$
16.	(a)	Develop an XML schema for a "Banking System". State the functional requirements you are considering. (15)
		\mathbf{Or}
· ·	(b)	Outline the steps in building an application using service oriented architecture. (15)
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