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Reg. No. :

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Question Paper Code : 91570

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Seventh Semester

Information Technology

IT 2401/IT 71/10144 IT 701 — SERVICE ORIENTED ARCHITECTURE

(Common to Computer Science and Engineering)

(Regulation 2008/2010)

(Common to PTIT 2401 — Service Oriented Architecture for B.E. (Part-Time)
Seventh Semester – Computer Science and Engineering – Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define application architecture.
2. List out some common principles of service orientation.
3. What is an intermediary service?
4. List out the characteristics of ACID transactions.
5. What are the types of derived business services?
6. Define Envelope element in SOAP message.
7. Write down the types of components that can be used to build J2EE web applications.
8. Define Generated stub.
9. Differentiate `getVariableProperty` and `getVariableData` functions.
10. Write any four XML signature elements.

PART B — (5 × 16 = 80 marks)

11. (a) Describe how SOA can be compared to distributed internet architectures.

Or

(b) Discuss the anatomy of service oriented architecture.

12. (a) Write short notes on :

(i) Messaging with SOAP (11)

(ii) Business activities in web services. (5)

Or

(b) Briefly explain about :

(i) Service layer abstraction. (8)

(ii) Application service layer. (8)

13. (a) Explain in detail about service modeling guidelines.

Or

(b) Describe application service design in a step by step process.

14. (a) Discuss in detail about SOA platform basics.

Or

(b) Explain how service oriented architecture is supported in .NET framework.

15. (a) Write short notes on WS-Coordination overview.

Or

(b) Briefly explain about WS-Policy language basics.