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## Eighth Semester B.E. Degree Examination, June/July 2011

### Service Oriented Architecture

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting at least TWO questions from each part.**

#### PART – A

- 1 a. Explain the common tangible benefits of service-oriented architecture. (08 Marks)  
b. Define service-oriented architecture. (04 Marks)  
c. Compare service-oriented architecture with 2-tier client-server architecture. (08 Marks)
- 2 a. Explain the basic web services design concepts. (10 Marks)  
b. Explain the SOAP messaging format. (10 Marks)
- 3 a. Define coordination and explain the coordinator composition. (10 Marks)  
b. What are atomic transactions? Explain its protocols. (10 Marks)
- 4 a. What is correlation? How is correlation implemented in MEP's and activities? (10 Marks)  
b. Explain the WS-Metadata exchange specification. (10 Marks)

#### PART – B

- 5 a. Explain the components of SOA. (10 Marks)  
b. Explain how service reusability interrelates with other service-orientation principles. (10 Marks)
- 6 a. Explain the three layers of abstraction identified for SOA. (10 Marks)  
b. Explain the following scenarios :  
i) Task-centric business services and utility application services  
ii) Process services, hybrid application services and utility services. (10 Marks)
- 7 a. Explain the WS-BPEL process definition structure. (06 Marks)  
b. Explain the steps required to create a WS-BPEL process definition. (10 Marks)  
c. Explain the WS-Reliable messaging language elements. (04 Marks)
- 8 a. Explain the fundamental service technology architecture. (10 Marks)  
b. Explain the J2EE runtime environment support to SOA. (05 Marks)  
c. What are the .NET API's provided for SOA support? (05 Marks)

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