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Fifth Semester MCA Degree Examination, Dec.2015/Jan.2016
Service Oriented Architecture

Time: 3 hrs.   Max. Marks: 100

Note: *Answer any FIVE full questions.*

1   a. Define SOA. Explain ten characteristics of SOA.   **(12 Marks)**
     b. Explain 4 tangible benefits of SOA.   **(04 Marks)**
     c. Give brief history of XML and web services.   **(04 Marks)**

2   a. Compare service oriented architecture with client/server architecture.   **(10 Marks)**
     b. How SOA is reshaping XML and web services?   **(05 Marks)**
     c. Differentiate between service orientation and object orientation.   **(05 Marks)**

3   a. Explain service description with WSDL.   **(10 Marks)**
     b. What is intermediary? Explain 2 types of service intermediary.   **(05 Marks)**
     c. What are service models? Explain different types of service models.   **(05 Marks)**

4   a. What is message exchange pattern? Explain different types of message exchange patterns.
                                                                          (10 Marks)
     b. Explain co-ordination with respect to co-ordinator composition and context in activity.
                                                                          (10 Marks)

5   a. Explain addressing with end point references and message information headers.   **(10 Marks)**
     b. Explain WS-security.   **(10 Marks)**

6   a. How service-orientation principles interrelate in reusability and service contract?   **(10 Marks)**
     b. What is Business service layer? Explain different business service models.   **(05 Marks)**
     c. Give WS-BPEL process definition structure.   **(05 Marks)**

7   a. Explain skeleton for co-ordination context construct.   **(10 Marks)**
     b. Explain steps present in service oriented design.   **(10 Marks)**

8   a. Explain high-level architecture with conceptual view, logical view, physical view with
         example.   **(10 Marks)**
     b. Write a short note on:
         i) Java platform enterprise edition.
         ii) .NET Microsoft application platform.   **(10 Marks)**

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