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13MCA545

**Fifth Semester MCA Degree Examination, June/July 2017**

**Service Oriented Architecture**

Time: 3 hrs.

Max. Marks:100

*Note: Answer any FIVE full questions.*

- 1 a. What is SoA? Explain in detail the concepts of fundamental SoA with neat diagrams. (10 Marks)  
b. List the common characteristics of contemporary SoA and explain any five in detail. (10 Marks)
- 2 a. Illustrate the SoA time line (from XML to web services to SoA) and how SoA is reshaping from XML and web services. (10 Marks)  
b. Focusing on application logic, technology, security and administration. Compare SoA with 2-tier client server architecture. (10 Marks)
- 3 a. What is a service model? Explain three different types of service models. (10 Marks)  
b. Draw the sketch of SOAP message structure. Discuss the major elements of a SOAP message. (10 Marks)
- 4 a. What are Message Exchange Patterns (MEPs)? Differentiate between primitive MEPs and complex MEPs. (10 Marks)  
b. Orchestration has been called the "Heart of SoA". Explain how orchestration relates to other parts of SoA. (10 Marks)
- 5 a. List out the common principles of service orientation. Explain. (10 Marks)  
b. Compare any six service oriented principles to object oriented principles. (10 Marks)
- 6 a. With a neat diagram, explain three primary service layers of service oriented architecture. (10 Marks)  
b. What do you mean by the term "agnostic service"? Describe any two service layer configuration scenario. (10 Marks)
- 7 a. Briefly explain the WS-addressing language basics. (10 Marks)  
b. Explain in details the service oriented business process design. (10 Marks)
- 8 a. Elaborate the key architectural considerations for enterprise applications. (10 Marks)  
b. Explain in detail, how SoA is supported in .NET framework. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.