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13MCA545

**Fifth Semester MCA Degree Examination, Dec.2018/Jan.2019**  
**Service Oriented Architectures (SoA)**

Time: 3 hrs.

Max. Marks:100

*Note: Answer any FIVE full questions.*

- 1 a. List all common characteristics of contemporary SoA and explain any six of them. (10 Marks)  
b. Explain common tangible benefits of SoA. (10 Marks)
- 2 a. Explain SoA time line from XML to web services to SoA. (10 Marks)  
b. Explain different standards organizations that contribute to SoA. (10 Marks)
- 3 a. Explain service roles and service models. (08 Marks)  
b. Explain :  
i) Structure of SOAP message  
ii) SOAP message nodes  
iii) Message paths. (12 Marks)
- 4 a. Explain primitive message exchange patterns. (10 Marks)  
b. Explain atomic transactions, How atomic transaction relate to SoA. (10 Marks)
- 5 a. List all the common principles of service orientation and explain any four of them. (10 Marks)  
b. How service orientation principles inter-relate? Explain. (10 Marks)
- 6 a. Explain application service layer. (10 Marks)  
b. Explain business service layer. (10 Marks)
- 7 Explain :  
a. Variable element  
b. Sequence element  
c. Invoke element  
d. Receive element. (20 Marks)
- 8 a. Explain architectural considerations for enterprise applications. (10 Marks)  
b. Explain software platforms for enterprise applications. (10 Marks)

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.

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