

# CBCS SCHEME

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16MCA553

## Fifth Semester MCA Degree Examination, Dec.2018/Jan.2019 Service Oriented Architecture

Time: 3 hrs.

Max. Marks: 80

**Note: Answer FIVE full questions, choosing ONE full question from each module.**

### Module-1

- 1 a. Explain in detail the main principles adopted during the service design. (08 Marks)  
b. Discuss with suitable diagram the primary characteristics of 2-tier client server architecture in comparison with corresponding SOA. (08 Marks)

OR

- 2 a. What are the characteristics of contemporary SOA? Explain. (08 Marks)  
b. Explain in detail the SOA time-line. (08 Marks)

### Module-2

- 3 a. Discuss the primitive and complex message exchange patterns. (08 Marks)  
b. With neat diagram explain coordinator service model and also explain service coordinator composition. (08 Marks)

OR

- 4 a. Explain with neat diagram the structure of SOAP. (08 Marks)  
b. Compare and contrast the choreography and orchestration in SOA with reference to web service. (08 Marks)

### Module-3

- 5 a. What are the security requirements in web service design? (08 Marks)  
b. How components in SOA inter-relate? Explain. (08 Marks)

OR

- 6 a. With suitable diagram explain reliable messaging model. (08 Marks)  
b. How service-orientation principles relate to object-orientation principles? Discuss. (08 Marks)

### Module-4

- 7 a. Explain business service models in detail. (08 Marks)  
b. Discuss service-oriented business process redesign. (08 Marks)

OR

- 8 a. What are the application services characteristics? Explain. (08 Marks)  
b. Explain WS-BPEL languages basics. (08 Marks)

### Module-5

- 9 a. What are architectural considerations? Explain. (08 Marks)  
b. Explain packaged application platform. (08 Marks)

OR

- 10 a. Discuss architectural elaboration process. (08 Marks)  
b. Explain the principles in application server platform. (08 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.