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13MCA545

Fifth Semester MCA Degree Examination, June/July 2018
Service Oriented Architecture (SOA)

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain the principles of SOA and highlight the common characteristics of contemporary SOA. Explain any three characteristics in detail. (10 Marks)
b. What is an architecture? How can service oriented Architecture (SOA) be compared with client – server architecture, explain. (10 Marks)
- 2 a. Define WSDL. Explain service description using WSDL. (08 Marks)
b. Explain the different Message Exchange Patterns (MEPs) with neat diagram. (06 Marks)
c. Explain atomic and ACID transactions with example. (06 Marks)
- 3 a. Explain the structure of messaging with SOAP. (Simple object access protocol). (05 Marks)
b. What is service model? Explain business, utility and controller service models with neat diagrams. (10 Marks)
c. What is service activity? Explain. (05 Marks)
- 4 a. Describe orchestration with a neat diagram. Also discuss about choreography with a neat diagram. (10 Marks)
b. Explain WS-addressing in detail with an example. (10 Marks)
- 5 a. Explain the workflow logic for the TFS timesheet submission process and map out interaction scenarios. (05 Marks)
b. Briefly explain WS-BPEL language basics. (10 Marks)
c. Discuss about WS-Security concepts. (05 Marks)
- 6 a. Explain reference model of web-based Java EE enterprise application with a neat diagram. (10 Marks)
b. Explain reference model of web-based .Net EE enterprise application with a neat diagram. (10 Marks)
- 7 a. Explain service oriented business process design with appropriate steps. (10 Marks)
b. List the best principles that can be applied in the architecture of enterprise application. (10 Marks)
- 8 Write short notes on :
a. SOA timeline
b. Reliable messaging
c. Service orientation and object orientation
d. Policies and framework. (20 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.