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16/17MCA553

Fifth Semester MCA Degree Examination, Dec.2019/Jan.2020
Service Oriented Architectures

Time: 3 hrs.

Max. Marks: 80

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

Module-1

1 a. What are all the common characteristics of contemporary SOA? Explain any five. (08 Marks)
   b. Define standard. Compare the three standard organizations namely OASIS, W3C, WS – I. (08 Marks)

OR

2 a. What is an architecture? Explain the different types of architecture. (08 Marks)
   b. Compare SOA with distributed internet architecture. (08 Marks)

Module-2

3 a. List and explain the different types of service models. (08 Marks)
   b. Explain elaborately the concept of co-ordination related to WS with neat diagram. (08 Marks)

OR

4 a. Define WSDL. Explain service descriptions using WSDL. (08 Marks)
   b. Explain the different message exchange pattern with diagram. (08 Marks)

Module-3

5 a. Discuss in detail about the common principles of service orientation. (08 Marks)
   b. Summarize the anatomy of Service Oriented Architecture. (08 Marks)

OR

6 a. Explain how the WS-reliable messaging specification helps in SOAP messages. (08 Marks)
   b. Compare the service orientation principles and object orientation principles. (08 Marks)

Module-4

7 a. Explain how to design service oriented business process. (08 Marks)
   b. Write short note about the following :
      i) Orchestration service layer abstraction
      ii) Business service layer abstraction. (08 Marks)

OR

8 a. What do you mean by the term agnostic service? Describe any two service layer configuration scenario. (08 Marks)
   b. Explain the basics of WS – BPEL language. (08 Marks)

Module-5

9 Elaborate support for SOA in J2EE platform. (16 Marks)

OR

10 a. Discuss the key architectural consideration for enterprise application. (08 Marks)
    b. List and explain the principles that are applicable to application server platform. (08 Marks)

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