Printed Pages:01 Sub Code: KCS-079

Paper Id: 231548 Roll No.

B.TECH.
(SEM VII) THEORY EXAMINATION 2022-23
SERVICE ORIENTED ARCHITECTURE

Time: 3 Hours *Total Marks: 100*

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 10 = 20**

(a) What is Micro service Architecture?
(b) Define Contemporary SOA.
(c) What is SOA reference Architecture?
(d) What is SOAD?
(e) Define the Orchestration in web services.
(f) Write the strategic architecture governance.
(g) What is the principle of service orientation?
(h) List the goals of service-oriented analysis.
(i) What are the types of derived business services and benefits?
(j) Describe the technology for Big Data.

SECTION B

2. Attempt any *three* of the following: **10x3 = 30**

(a) Describe service layer Abstraction in SOA.
(b) Compare between :SOA and Client server architecture and Distributed Internet Architecture
(c) Write a short note on:
  (i) Orchestration in web services
  (ii) Security specification used in SOA
(d) Explain the SOA reference architecture.
(e) Explain the design of Business process services.

SECTION C

3. Attempt any *one* part of the following: **10x1 = 10**

(a) What are SOAP and WSDL? Explain its importance in web service communication.
(b) What is SOA Governance? Explain its challenges faced while using SOA Governance.

4. Attempt any *one* part of the following: **10x1 = 10**

(a) Explain different component of SOA and their functionalities.
(b) Explain different messaging pattern used in SOA with relation of SOAP.

5. Attempt any *one* part of the following: **10x1 = 10**

(a) What are the features of contemporary SOA? Also state common pitfall of SOA.
(b) Explain different messaging patterns used in SOA with relation of SOAP.

6. Attempt any *one* part of the following: **10x1 = 10**

(a) Explain service activity structure in web service.
(b) Describe task centric business service design with example.

7. Attempt any *one* part of the following: **10x1 = 10**

(a) How native web service support for service orientation principles?
(b) Explain metadata. Write its importance in WSDL.

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