

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.