# KADI SARVA VISHWAVIDYALAYA
## BE IT SEMESTER- V (New) Examination April- 2025

Subject Name: SERVICE ORIENTED ARCHITECTURE
Subject Code: IT-502-N

Date: 08/04/2025     Time: 12:30 PM to 3:30 PM     Total Marks: 70

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Instructions:
1. Answer each section in separate answer sheet.
2. Use of scientific calculator is permitted.
3. All questions are Compulsory.
4. Indicate clearly, the option you attempt along with its respective question number.
5. Use the last page of main supplementary for rough work.

## Section-I

**Q-1 (A)** What is XML? Write its Features and Advantages. [5]

**(B)** Write on the following:
a) SOAP XML request and SOAP XML response structure [3]

b) Difference between HTML and XML [2]

**(C)** Explain UDDI Registry data and its components (White page, yellow page and [5] green page) with example.

**OR**

**(C)** Explain WSDL in detail. [5]

**Q-2 (A)** Explain SOA Standards Stack with appropriate diagram and its levels. [5]

**(B)** Write on the following:
a) Write a short note on: SOA with Web Services [2]
b) Explain Reliable messaging with suitable diagram. [3]

**OR**

**Q-2 (A)** Write Principles of Service-Oriented Architecture (SOA). [5]

**(B)** Write short note on the followings
a) Primitive MEPs [2]
b) Service Orientation and Object Orientation [3]

**Q-3 (A)** Explain ACID transaction characteristics in atomic transaction. [5]

**(B)** What is Choreography in Web service explain it with suitable example and [5] diagrams.

**OR**

**Q-3 (A)** What is WS-Policy. Explain it with WS-Policy Attachments and WS-Policy [5] Assertions.

**(B)** What is WS-Metadata Exchange. Explain Get Metadata request and response [5] messages.

# Section-II

**Q-4** **(A)** What is WS-Addressing. Explain Endpoint references and Message information headers. [5]

**(B)** Why we use Orchestration in Web service? Explain how it organized the services. [5]

**(C)** Briefly explain WS-BPEL with its process definition structure and its elements. [5]

## OR

**(C)** Briefly explain Service Execution and monitoring. [5]

**Q-5** **(A)** Explain steps of how web service design, build and deployment using Java. [5]

**(B)** Explain steps of Publish Web service using UDDI. [5]

## OR

**Q-5** **(A)** Explain Service Discovery and Service Composition with suitable diagram. [5]

**(B)** Write RPC versus Document Orientation. [5]

**Q-6** **(A)** Write How SOA supports in J2EE with appropriate diagram. [5]

**(B)** Write Short note on following:
   a) JAXB (Java architecture for XML binding) [3]
   b) Service Creation [2]

## OR

**Q-6** **(A)** Explain SOA support in .NET Platform. Explain it with appropriate diagram. [5]

**(B)** Write Short note on following:
   a) JAX-WS(JavaAPIforXML-Based web services) [3]
   b) Service Life Cycle [2]