

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2012274

Roll No.

**B.TECH.**

**Regular Theory Examinatio (Odd Sem-VII) 2016-17**  
**SERVICE ORIENTED ARCHITECTURE**

*Time : 3 Hours*

*Max. Marks : 100*

**Section - A**

- 1. Answer all parts. All parts carry equal marks. Write answer of each part in short. (10×2=20)**
- What is Web Service?
  - List out some common principles of service orientation.
  - Define Envelop element in SOAP message.
  - Write down the types of components that can be used to build J2EE web applications?
  - Define Generated stub.
  - What are the conditions under which the web service takes the role of a service requestor?

- g) What is the use of web service description language?
- h) How are switch, case and otherwise elements used in BPEL?
- i) What are policy element and common policy assertions?
- j) What are dynamic proxy and dynamic invocation interface.

**Section - B**

**Note: Attempt any five questions from this section  
(5×10=50)**

- 2. Compare between: SOA and Client Server Architecture and Distributed Internet Architecture.
- 3. Describe about the JAXB architecture in detail.
- 4. Discuss in detail about web services interoperability Technologies (WSIT)
- 5. What is CLR? Illustrate the importance of JAXR and JAX-RPC for SOA platform.
- 6. Explain entity centric and task centric business service design in detail.
- 7. How is Service Oriented Architecture achieved in NET platform? Discuss.

**Section - C**

**Note: Attempt any two questions from this section.  
(2×15=30)**

- 8. Explain briefly about Technical Requirements for Orchestration and Choreography.

**OR**

What are the features of Contemporary SOA? Also state common pitfall of SOA. Explain different messaging patterns used in SOA with relation of SOAP.

- 9. Explain SOA platform and describe the APIs in J2EE which is used to build SOA.