

Paper Code: CS-076

Roll No.

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B.TECH
SEVENTH SEMESTER EXAMINATION, 2016-17
SERVICE ORIENTED ARCHITECTURE

[Time: 3 hrs.]

[Max. Marks: 100]

Note: Attempt *ALL* questions. Assume suitable data, if required. All question carry equal marks.

1. Attempt any *four* parts of the following: - **(5x4=20)**
 - (a) Define SOA. How are component of SOA inter related?
 - (b) Compare SOA with client server architecture.
 - (c) Explain the different principle of SOA.
 - (d) What are the different characteristics of SOA?
 - (e) List the goals of service oriented analysis.
 - (f) What is the usage of envelope elements in SOAP message structure?

2. Attempt any *two* parts of the following: - **(10x2=20)**
 - (a) Explain the message exchange pattern in SOA and the importance of messaging in SOA.
 - (b) Discuss the atomic transaction and the various ACID transaction protocols.
 - (c) Discuss the three service layers of SOA in details.

3. Attempt any *two* parts of the following: - **(10x2=20)**
 - (a) Explain step by step business service and service modelling in SOA.
 - (b) Explain the web services used in SOA. Briefly discuss the WSDL.
 - (c) Explain the entity-centric and task-centric business service design in details.

4. Attempt any *two* parts of the following: - **(10x2=20)**
 - (a) Explain the SOA platform and describe the API'S in J2EE which is used to build SOA.
 - (b) Discuss the SOA support in .NET platform and the architecture component in .NET platform.
 - (c) Compare the service providers, service requestors of J2EE and .NET platform in SOA.

5. Attempt any *two* parts of the following: - **(10x2=20)**
 - (a) Discuss WS-Security in details and WS-security language.
 - (b) Explain the WS-BPEL basics. How are switch case and otherwise elements used in WS-BPEL?
 - (c) Discuss the WS-Choreography and the elements of WS-addressing message headers