

# C.U.SHAH UNIVERSITY

## Summer Examination-2017

Subject Name : Service Oriented Computing

Subject Code : 4TE07SOC1

Branch: B.Tech (IT)

Semester :7

Date : 21/03/2017

Time : 02:30 To 05:30

Marks : 70

### Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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- Q-1**      **Attempt the following questions:**
- |    |   |    |
|----|---|----|
| a) | What is Choreography?   | 01 |
| b) | List various common tangible benefits of Service Oriented Architecture. | 01 |
| c) | What do you mean by Atomic transaction?                                 | 01 |
| d) | What is Orchestration?  | 01 |
| e) | What is Peer to Peer Computing?   | 01 |
| f) | List various WSDL Elements.   | 01 |
| g) | What is Integration?  | 01 |
| h) | List various rules of tag naming in XML.                                | 01 |
| i) | What is RESTful Web Service?  | 01 |
| j) | What is Interoperation?   | 01 |
| k) | What do you mean by Markup Language?                                    | 01 |
| l) | Why do you prefer SOAP over HTTP?                                       | 01 |
| m) | Define the term Web Service.  | 01 |
| n) | What is Well formed XML?  | 01 |

### Attempt any four questions from Q-2 to Q-8

- Q-2**      **Attempt all questions.**
- |    |   |    |
|----|---|----|
| a) | Explain SOAP request-response with example. | 07 |
| b) | Explain WSDL Structure.                     | 07 |
- Q-3**      **Attempt all questions.**
- |    |  |    |
|----|--|----|
| a) | Explain various faults and processing of SOAP.   | 07 |
| b) | What is Service Oriented Computing? Explain Elements (Characteristic / Key Concept) of Service Oriented Architectures. | 07 |
- Q-4**      **Attempt all questions.**
- |    |  |    |
|----|--|----|
| a) | Write a note on Model Driven Architecture and Legacy System. | 07 |
| b) | What is Ontology and OWL? How does OWL differ from RDF?      | 07 |
- Q-5**      **Attempt all questions.**
- |    |  |    |
|----|--|----|
| a) | Explain general architecture of Web Service. | 07 |
|----|--|----|



b) Explain UDDI Inquiry API and UDDI Publishing API. **07**

**Q-6**

**Attempt all questions.**

- a) Explain RDF Schema with Example. **07**  
b) Explain CORBA as execution model. **07**

**Q-7**

**Attempt all questions.**

- a) Create a XML document to represent various books available in library and create related XML Schema definition file. **07**  
b) Create a XML document to represent items available in a General Store, also create XML DTD file. **07**

**Q-8**

**Attempt all questions.**

- a) What is JAX-WS? Creating a simple web service and clients with JAX-WS. **07**  
b) Explain J2EE Architecture. **07**

