

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (OLD) - EXAMINATION – SUMMER 2018****Subject Code:181605****Date: 04/05/2018****Subject Name: Service Oriented Computing****Time: 10.30AM to 01.00PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define the following terms. **07**
1) SOA 2) Loose coupling 3) Workflow 4) SOAP 5) Granularity
6) UDDI 7) Semantic Web
- (b) Explain CORBA and JINI in details with example. **07**
- Q.2** (a) Explain Autonomy, Heterogeneity & Dynamism in open environment for Web services. **07**
- (b) Explain .NET Framework architecture with suitable example. **07**
- OR
- (b) Explain J2EE architecture with suitable example. **07**
- Q.3** (a) Explain SOAP request and response with sample example code in details. **07**
- (b) Explain RESTful Web Service architecture with suitable example. **07**
- OR
- Q.3** (a) How ACID properties are implemented in distributed transaction? Explain with an example. **07**
- (b) Write short note on following. **07**
1. Model Driven Architecture 2. ebXML
- Q.4** (a) Explain Multiagent architecture and its life cycle in details. **07**
- (b) Write short note on BPEL4WS. **07**
- OR
- Q.4** (a) Write a short note: RDF Schema **07**
- (b) Write a short note: OWL **07**
- Q.5** (a) Differentiate followings: **07**
(1) Interoperation Vs. Integration (2) RPC Vs. Document Orientation
- (b) Compare the pros and cons of Grid Computing and Service Oriented Computing. **07**
- OR
- Q.5** (a) Differentiate between SOAP, WSDL and UDDI. **07**
- (b) What is Web Service? Explain its architecture in details. **07**
