Enrollment No: _____   Exam Seat No:_____

C.U.SHAH UNIVERSITY
Winter Examination-2018

Subject Name : Service Oriented Computing

Subject Code : 4TE07SOC1   **Branch: B.Tech (CE, IT)**

Semester : 7   **Date :   27/11/2018**   **Time : 10:30 To 1:30**   **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.

Q-1   **Attempt the following questions.**   **(14)**

  a.   SOAP stands for
        A) Service Oriented Access Protocol   B) Simple Object Access Protocol
        C) Service Oriented Adaptive Protocol   D)   Simple   Object   Adaptive
        Protocol

  b.   W3C stands for
        A) World Web Council   B) World-Wide Web Consortium
        C) Web World Consortium D) None of these

  c.   WS-I stands for
        A) Web Service Interoperability   B) Web Service Interface
        C) Web Service Isolation   D) None of theses

  d.   The use of a DTD in XML development is:
        A) required when validating XML documents
        B) no longer necessary after the XML editor has been customized
        C) used to direct conversion using an XSLT processor
        D) a good guide to populating a templates to be filled in when generating an
        XML document

  e.   To match the root node in XSLT transform the syntax will be
        A) <xsl:template match="Document">
        B) <xsl:template match="Root">
        C) <xsl:template match="RootNode">
        D) <xsl:template match=" /">

  f.   OMG stands for:
        A) Object Management Group   B) Object Model Group   C)   Oracle
        Management Group D) None of these

g. DOM stands for
A) Document Object Method B) Document Object Model
C) Discrete Object Model D) Discrete Object Method

h. UDDI stands for
A) Universal Data Dictionary Interface   B) Universal Description, Discovery, and Integration C) Universal Description, Discovery, and Interface   D) Universal Directory, Discovery, and Interface

i. XSLT processors accept as input:
A. an XML conforming document file and an XSLT specification file
B. only an XML document
C. only an XSLT specification
D. either an XML document or an XSLT specification

j. SIP stands for
A) Simple Interface Protocol   B) Session Initiation Protocol
C) Session interface protocol   D) Simple Initiation Protocol

k. RDF Stands for
A) Resource Discovery Framework B) Resource Description Framework
C) Resource Discovery Format D) Resource Description Format

l. Open Environment requires
A) Autonomy only   B) Heterogeneity only
C) Dynamism only   D) All mentioned in a,b,c

m. What does DTD stand for?
A) Direct Type Definition B) Document Type Definition
C) Document The Definition D) Dynamic Type Definition

n. CORBA stands for
A) Common Object Request Broker Architecture B) Common Object Request Broker Association C) Common Object Resource Broker Architecture D) Common Object Request Broker Association

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

Q-2   Attempt all the questions.   (14)

a)   Write a short note on followings:
             i)   Autonomy   ii) Heterogeneity   iii) Dynamism

b)   Discuss architectural similarities between .Net & J2EE with diagram.

Q-3   Attempt all the questions.   (14)

a)   What are RESTful services? Compare SOAP based with. RESTful Web Service.

b)   What is SOAP? Explain SOAP request-response for Attendance Management System, given enrollment number and department name, it

should return attendance in percentage.

Q-4   **Attempt all the questions.**   **(14)**

a)   Develop XML document representing library resources like book, cd, magazine and validate through XML Schema.

b)   What is Model Driven Architecture? Explain in detail Integration Vs Interoperation.

Q-5   **Attempt all the questions.**   **(14)**

a)   What is importance of Directory Services? What is role of UDDI?

b)   Define Web Service. Explain importance of WSDL with detailed structure.

Q-6   **Attempt all the questions.**   **(14)**

a)   What is Ontology and OWL? How is OWL Different than RDF?

b)   Explain following four types of classification schemes for Knowledge Representations.
        i. Keywords
        ii. Thesauri
        iii. Taxonomies

Q-7   **Attempt all the questions.**   **(14)**

a)   Explain Two Phase Commit Protocol in detail.

b)   Write a short note on WSCL.

Q-8   **Attempt all questions**   **(14)**

a)   What is significance of CORBA in distributed computing?

b)   Explain different P2P Models. Also compare P2P with Client Server Model.