Enrollment No._____   Exam Seat No._____

C. U. SHAH UNIVERSITY
Summer Examination-2022

Subject Name: Service Oriented Computing
Subject Code: 4TE07SOC1   **Branch: B.Tech (CE)**
Semester: 7   **Date: 21/04/2022**   **Time: 02:30 To 05:30**   **Marks: 70**

Instructions:
  (1) Use of Programmable calculator and 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	**Match the following.**	**14**
a)	What is strict scheduling?	**1**
b)	Why peers are called 'servants'?	**1**
c)	How does a co-operative system function?	**1**
d)	Define OWL – RDF – RDFS	**3**
e)	Write in brief 'Semantic Web'.	**2**
f)	Write a brief note on Model Driven Architecture.	**2**
g)	What is relaxing serialization?	**1**
h)	Write a note on Grid and Utility Computing.	**3**

Attempt any four questions from q. 2 to q. 8

Q. 2	**Attempt all questions.**	
a)	Define the following terms.	**7**
	1) SOA 2) Loose coupling 3) Workflow 4) SOAP 5) Granularity 6) UDDI 7) Semantic Web	
b)	Explain .NET Framework architecture with suitable example	**7**
Q. 3	**Attempt all questions.**	
a)	Explain SOAP request and response with sample example code in details	**7**
b)	Discuss Multi agent systems	**7**
Q. 4	**Attempt all questions.**	
a)	Explain UDDI API for registry access	**7**
b)	What is RDF? Explain RDF document in detail	**7**
Q. 5	**Attempt all questions.**	
a)	What is peer-to-peer computing? Explain in brief the models of peer-to-peer computing.	**7**
b)	Write a short note on : OWL	**7**

Q. 6 Attempt all questions.

   a) Compare RESTful Web Service and SOAP based Web Service   **7**

   b) What are the benefits of Service Oriented Computing? Discuss Autonomy, Dynamism and   **7**
       Heterogeneity in Open Environments.

Q. 7 Attempt all questions.

   a) Short note on Business Transaction protocol.   **7**

   b) Differentiate between: **7**

      (1) Interoperation Vs. Integration (2) RPC Vs. Document Orientation

Q. 8 Attempt all questions.

   a) Explain J2EE architecture with suitable example.   **7**

   b) Explain CORBA and JINI in details with example.   **7**