

Course No : SWE 4417	College of Engineering	Student No: _____
Course Tile: <i>Distributed Software Systems</i>	Final Exam of Second Term 2014/2015	Student Name: _____
Exam Time: 2 Hours	Eng. Ibrahim Al-Sharif	Date: 21-05-2015
No of Questions: 5	Total Grade: 100	Try to Answer: All

Q1: Define: (20 marks)

- 1- Web services.
- 2- XML.
- 3- WSDL.
- 4- UDDI.
- 5- SOAP.
- 6- Throughput.
- 7- Execution time.
- 8- Latency.
- 9- Execution time.
- 10- Service broker.

Q2- Talk about the following: (15 marks)

- 1- Elasticity:
- 2- Responsibilities in Software as a Service (SaaS) :
- 3- Responsibilities in Platform as a Service (PaaS):
- 4- Responsibilities in Infrastructure as a Service (IaaS):
- 5- Code Migration:

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Q3- Answer the following: (15 marks)

- 1- What is Atomicity? Why we need it?*
- 2- What is the core idea of the 2-phase commit protocol?*
- 3- Message -Oriented Middleware connection types are: Point-to-point and Publish / Subscribe .Explain briefly each type*

Q4- Answer the following: (25 marks)

- 1- Explain the important principle of RMI.*
- 2- List the three types of invocation semantics in RMI. and explain one.*
- 3- What is the main task of Registry, Skeleton and Remote reference layer in RMI?*
- 4- What is IDL in CORBA? Why we need it?*
- 5- What are the limitations of CORBA?*

Q5- Design: (25 marks)

A group chatting system is required for a small company, What is and Why?

- Architecture of the system:*
- Invocation Semantic:*
- Middleware Type:*
- Middleware Name:*
- Programming Language(s):*
- Interaction model:*
- Failure model:*
- Security model:*