

Course No: SWEN4415  
Course Title: Distributed System  
Date: 11/01/2018  
No. of Questions: (9)  
Time: 2hours  
Using Calculator (No)

University of Palestine



Final Exam  
2<sup>nd</sup> Semester 2017/2018  
Total Grade:100

InstructorName:Eng:Suhail Iqrinawi  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
CollegeName:College of Engineer  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

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**Question One:****(10 Marks)**

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**Define:**

**1-XML**

**2-CORBA**

**3-protocol**

**4-WSDL**

**5-ReST**

**6-UDDI**

**7-RPC**

**8-API**

**9-SOAP**

**10-RTT**

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**Question Two:** (10)

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**A:** List the three types of invocation semantics in RMI. And explain one of it. (5 Marks)

B. What is the purpose of proxy servers?(5 Marks)

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**Question Three:** (10)

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**Q3-A-**What is difficulties and threats to distributed system for modeling? (5 Marks)

**Q3-B-** What is the main characteristic of inter process communication? (5 Marks)

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**Question Four:****(10 Marks)**

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List the six layers of OSI and explain the main role for every layer.

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**Question five :** (10 Marks)

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Explain the difference between the RMI, RPC.

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**Question six :** (10 Marks)

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A-what is the six condition in relation happened before in logical time and clocks?(5 Marks)

B, list the main advantaged and disadvantages for middleware layer.(5Marks)

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**Question Seven :** (10 Marks)

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How RPC systems work? List the steps of RPC working and supporting them with graph procedure? (10 Marks)

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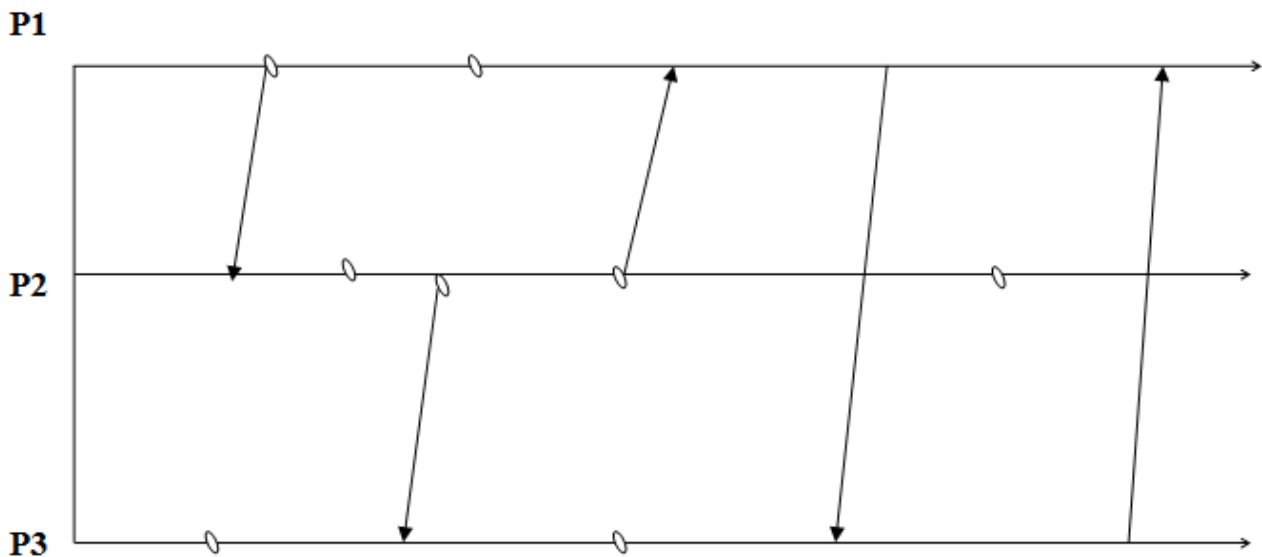
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### Question Eight :

(15Marks)

By using the vector clock algorithm find the nodes event for three process, and show the tow event which are concurrent?



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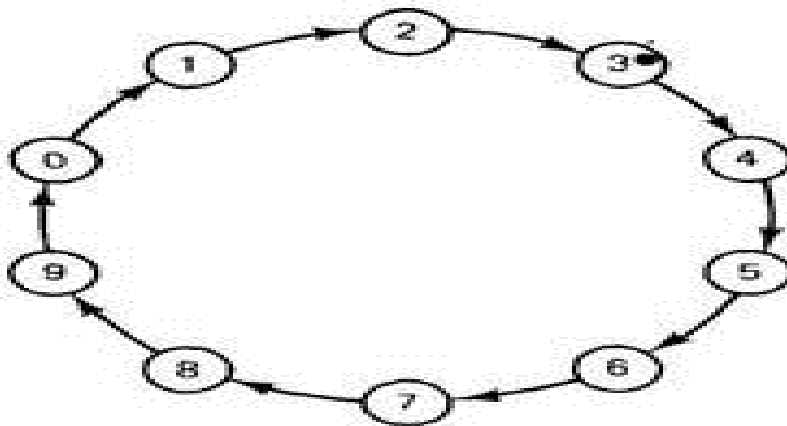
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### Question Nine :

(15Marks)

By using the Ring Based algorithm, find the coordinator or leader for all these process where the initiate process is(5).



End of Questions

*Good Luck*

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