**Sub: Distributed Database System Class: T.E Comps B**

**ASSIGNMENT NO: 1 (Chapter 4, 5, 6 and 7 )**

1. Compare Wait Die and Wound Wait Method with an example. **(Chapter 4)**
2. Compare and Contrast Centralized and Hierarchical deadlock detection methods? **(Chapter 4)**
3. What is false Deadlock? Discuss with an example? **(Chapter 4)**
4. Consider the LWFGs of two different sites in the following figure. Explain whether any deadlock has occurred globally. **(Chapter 4)**

**Site 1 Site 2**

1. Explain 2 Phase Commit Protocol with state transition diagram and termination protocol? **(Chapter 4)**
2. Explain Phases in Distributed Query Processing. **(Chapter 5)**
3. Compare Heterogeneous and Homogenous DDBMS? **(Chapter 6)**
4. Explain Query Processing Issues in Heterogeneous database? **(Chapter 6)**
5. What is DTD? Give the DTD for an XML representation of the following nested relational Schema. **(Chapter 7)**

Emp= (Ename, Childrenset setoff (children),skillsetof(Skill))

Children= (Name, Birthday)

Birthday= (Day, Month, Year)

Skills= (Type, Examset, Setoff (Exams))

Exams= (Year, City)

1. Give the XML Schema representation (Bkng.xsd file) of the following .xml file. **(Chapter 7)**

<? Xml version="1.0" encoding="UTF-8"?>

<booking xmlns:xsi="XMLSchema-instance" xsi: Schema Location=" Bkng.xsd">

<MeetingDate>

<Year>2003</year>

<Month>April</month>

<Day>1</day>

<Meeting>

<MeetingName>Democratic Party</MeetingName>

<RoomName>Green Room</RoomName>

</Meeting>

<Meeting>

<MeetingName>Republican Party</MeetingName>

<RoomName>Red Room</RoomName>

</Meeting>

</MeetingDate>

</bookings>

[**Note:** For every meeting, there has to be minimum one meeting name and room name associated with it]

1. What are XML applications? Explain Querying and transformation of XML data? **(Chapter 7)**

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