## DDBMS (End Term - Dec 2008)

Note: Q1 is compulsory. Attempt one question from each unit.

Q1. Answer all questions	(5*4=12)
a) There are some rules which must be followed when defining fragments.  I) Completeness Condition  II) Reconstruction Condition  III) Disjointness Condition	
Define each of the following terms.	
b) What is two phase locking in distributed concurrency control method?	
c) What are the properties of transactions?	
d) Describe Client Server Architecture of DDBMS.	
$\underline{\text{Unit} - I}$	
Q2.	
a) What is Reference Architecture for a Distributed Database.	(6)
b) What do you mean by mixed fragmentation?	(4)
Q3.	
a) Discuss the design issues of database fragmentation.	(6)
b) Draw the operator free for the following query Q1. Q1: $PJ_{snum}$ $SL_{AREA}$ = "NORTH" (Supply $JN_{DEPTNUM}$ =DEPTNUM DEPT)	(4)
<u>Unit - II</u>	
Q4.	
a) What is classification of concurrency control algorithm?	(5)
b) Explain serializability theory with example.	(5)

a) Explain reliability concepts and measure.	(5)
b) What are the failure and fault tolerance in distributed system?	(5)
<u>Unit - III</u>	
Q6.	
a) What do you mean by transaction model?	(5)
b) What are the Termination Conditons of a transaction?	(5)
Q7.	
a) Whata re the types of transactions?	(5)
b) What is Distributed Data Dictionary Management?	(5)
$\underline{\text{Unit} - \text{IV}}$	
Q8.	
a) Explain through diagram the following:  I) Shared Disk Architectire	
II) Shared Nothing Architecture III) Cache Only Architecture	(6)
b) Explain Distributed Database Server Approach.	(4)
Q9.	
a) What do you mean by Open Database Connectivity?	(5)
b) What do you mean by hetrogeneous and homogeneous DDBMS?	(5)

Q5.