## CMSM4122-CIA-1-2020-SA

Total points 10/10



Choose the most appropriate alternative(s). Each question carries 1 mark.

roll no *			
561	 		

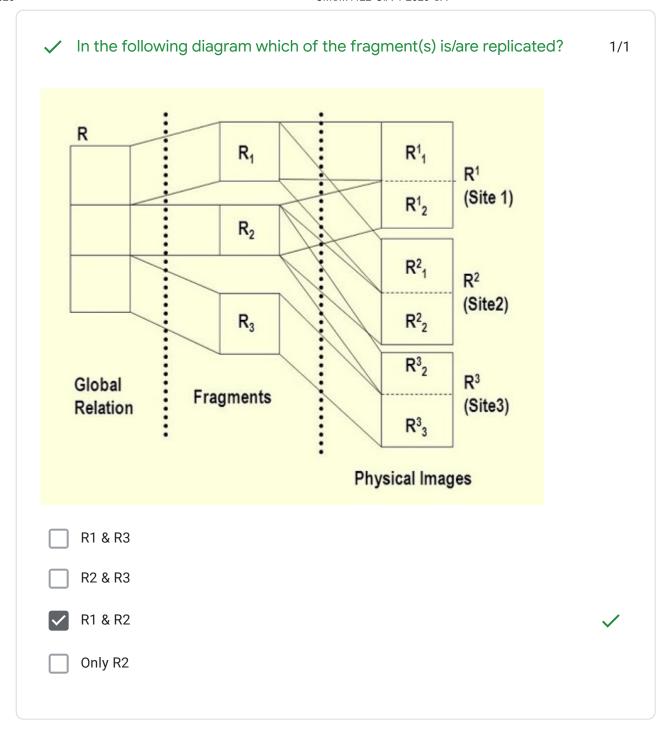
Chayan Kumar Sengupta

name \*

Reference architecture of DDBMS consist of 1/1 Global external schema. Fragmentation schema Allocation Schema Schema for each local dbms

~	Features of distributed database are	1/1
<b>✓</b>	Centralised control	<b>✓</b>
~	Data independence	<b>✓</b>
<b>~</b>	Reduction of Redundancy	<b>✓</b>
	Simple Physical structure	
<b>✓</b>	Which of the following are the components of DDBMS	1/1
<b>~</b>	Database management component	<b>✓</b>
<b>~</b>	Data Communication Component	<b>✓</b>
<b>~</b>	Data Dictionary	<b>✓</b>
<b>~</b>	Distributed database component	<b>✓</b>
<b>~</b>	Which of the following rule is not required to be followed while defining fragments	1/1
0	Completeness condition	
0	Reconstruction condition	
•	Redundancy condition	<b>✓</b>
0	Disjointness condition	

Choose the wrong alternative	1/1
Fragmentation schema is at the lowest level in the reference architecture of DBMS	<b>✓</b>
Global schema describes the part of the distributed database that is relevant to different users	)
The allocation schema is a description of where the data are to be located	
The logical organization of data at each site is described by local conceptual schema	



<b>/</b>	Choose the correct statement(s)	1/1
<b>~</b>	Distribution transparency hides the internal details of the distribution from the users	<b>✓</b>
<b>✓</b>	Location transparency makes the user feel that as if the tables are stored locally in the user's site	<b>✓</b>
<b>~</b>	Fragmentation transparency hides the fact that the table the user is querying on is actually a fragment or union of some fragments	<b>✓</b>
	Replication transparency ensures that replication of fragments are clearly known the the users	to
~	Choose the wrong alternative(s)	1/1
✓ □	Choose the wrong alternative(s)  Horizontal Fragmentation is carried out with the help of Selection operation	1/1
✓ □ <b>⊻</b>		1/1
	Horizontal Fragmentation is carried out with the help of Selection operation	1/1

✓ Following is an example of	1/1
SELECT EMP_ID, EMP_FIRST_NAME, EMP_LAST_NAME, AGE FROM EMPLOYEE WHERE EMP_LOCATION = 'INDIA; SELECT EMP_ID, DEPTID FROM EMPLOYEE WHERE EMP_LOCATION = 'INDIA; SELECT EMP_ID, EMP_FIRST_NAME, EMP_LAST_NAME, AGE FROM EMPLOYEE WHERE EMP_LOCATION = 'US; SELECT EMP_ID, PROJID FROM EMPLOYEE WHERE EMP_LOCATION = 'US;	
Vertical fragmentation	
O Derived horizontal fragmentation	
Mixed / hybrid fragmentation	<b>✓</b>
None of the above	
✓ Reasons for developing Distributed Database are	1/1
Organisational and economic Reasons	<b>✓</b>
Interconnection of existing databases	<b>✓</b>
Incremental growth	<b>✓</b>
Reliability and availability	<b>~</b>

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