



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

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Continuous Assessment Exam 1 (Even Sem 2020-21)

Program : BE (CSE)	Max. Marks : 30
Course : DISTRIBUTED DATABASE	Time : 1 Hour
Course code : SCS1613	Sem : VIII
Batch : 2017 - 2021	Date : 23.04.2021

Part-A Answer ALL the questions (6×2=12)

Q.No	Questions	CO
1.	Define distributed database and its uses	CO1
2.	How does the centralized database different from distributed database	CO1
3.	Define semi join	CO2
4.	What is a query tree	CO2
5.	List out the task of recovery manager	CO3
6.	Define timestamp	CO3

Part-B Answer ALL the questions (3×6=18)

Q.No	Questions	CO
7.	What is meant by fragmentation of the database? Explain with an example how a database can be fragmented in a distributed database	CO1
(OR)		
8.	What are the different types of transparencies? Explain their advantages and disadvantages in detail	CO1
9.	Classify the different types of join operations with appropriate queries	CO2
(OR)		
10.	Explain the query optimization process in detail	CO2
11.	List out the operations of two phase commit protocol, explain the messages passed in the case of commit and abort strategies	CO3
(OR)		
12.	What are the various concurrency protocols used in a distributed database transaction	CO3