Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: SY B.Tech	School of Commerce and Management	Department: CSE
Course Code: CST206	Course Title: Database Management System	Semester :IV
Day and Date: Tuesday 22/6/2021	End Semester Examination	Time:2 Hrs. Max Marks:50

Instructions: 1) All Questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Answer/Solve the following (any Two)**–			
a)	Illustrate the different views in Database. Quote examples wherever necessary.	8	2	CO1
b)	List various symbols used in ER diagrams and explain with any example ER diagram, following concepts. Entities, attributes, possible constraints, primary key and foreign keys.	8	1	CO2
c)	Illustrate different operations in relational algebra with suitable example.	8	2	CO1
Q.2	**Answer/Solve the following (any two)** –			
a)	Explain the terms normalization, functional dependency and inference rules with appropriate examples.	8	3	CO2
b)	Write an algorithm or rules for basic timestamp ordering protocol.	8	2	CO3
c)	Explain concept of starvation, deadlock, cascading rollback with examples.	8	1	CO3
Q.3	**Answer/Solve the following (any two)** –			
a)	Define hashing and explain the rules for ideal hash function	9	2	CO4
b)	Illustrate ACID properties of DBMS transactions with examples.	9	3	CO4
c)	Explain shadow paging and the concept of recovery algorithm.	9	1	CO4

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