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: 2020-21	**School of Technology**	**Department : CSE**
Course Code: CST306	**Course Title: Advanced Database Systems**	**Semester : VI**
Day and Date: Tuesday 08th June, 2021	**End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Instructions: 1) All questions are compulsory.
2) Assume suitable data wherever necessary.
3) Figures to the right indicate full marks.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any two)**			
a)	Relate RDBMS, ORDBMS and OODBMS with example.	8	L1	CO1
b)	Make use of a PL/SQL procedure for a 'Customer' table of a 'Bank' database to create a program to find account balance of the customer if the customer_id is given.	8	L3	CO2
c)	Explain Object Definition Language (ODL) and Object Query language (OQL) in detail.	8	L2	CO1
Q.2	**Answer the following (any two)**			
a)	Analyze XML DTD and XML Document for a 'Student' database.	8	L4	CO3
b)	Explain different types of NoSQL databases with example.	8	L2	CO4
c)	Justify that MapReduce is an efficient parallel programming model for processing Big Data using Word Count example.	8	L5	CO4
Q.3	**Answer the following (any two)**			
a)	Outline Multimedia database and Temporal database.	9	L2	CO1
b)	Apply queries in MongoDB to Create, Read, Update and Delete the data for an 'Employee' collection.	9	L3	CO4
c)	What is an array in MongoDB? Recall with the help of examples.	9	L1	CO4

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