		T T T
	Reg. No.	
	Question Paper Code 21339	
	M.E. / M.Tech DEGREE EXAMINATIONS, NOV/DEC 2022 First Semester	
	20PCSPC102 - ADVANCED DATABASES	
Dur	(Regulations 2020)	100
Dui	$PART - A (10 \times 2 = 20 Marks)$ Answer ALL Questions	: 100
		Marks, K-Level.CO
1.	Differentiate client server and centralized database system architectures.	2,K2,CO1
2.	What are the advantages of parallelism?	2,K1,CO1
3.	What is meant by a recursive query?	2,K1,CO2
4.	List the components of Deductive databases.	2,K2,CO2
5.	Define DTD.	2,K1,CO3
6.	Differentiate XPath and XQuery.	2,K2,CO3
7.	Identify the challenges in Mobility Data Management.	2,K1,CO4
8.	Define intermittent connectivity.	2,K1,CO4
9.	Define Multidimensional data.	2,K1,CO5
10.	Which database is best for storing videos?	2,K1,CO5
•	PART - B (5 × 13 = 65 Marks) Answer ALL Questions	
11.	a) Explain how the transactions are handled in distributed database.	13,K2,CO1
	b) Explain parallel databases with inter and intra query parallelism.	13,K2,CO1
12.	a) Discuss about the syntax and semantics in Starburst, Oracle and DB2 with suitable example.	13,K2,CO2
	 b) Explain about the various Spatial data types, relationships and access methods in detail. 	13,K2,CO2
13.	a) Explain a sample XML DTD file and generalize the concepts of elements and their nested structure.	13,K2,CO2

OR

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

Discuss about the following: b) 6.K2,CO3 (i) Native XML Databases 7,K2,CO3 (ii) Web Databases 13.K2.CO4 Explain about the transaction commit protocol in mobile database 14. a) system. OR 6,K2,CO4 b) (i) Discuss in detail about the design and implementation issues of mobile databases. (ii) Distinguish location dependent and location independent query 7,K2,CO4 with an example. Illustrate the use of various multidimensional data structures with neat 13,K3,CO5 15. a) diagram. OR 13,K3,CO5 b) Interpret how querying the content of video libraries is done with

PART - C $(1 \times 15 = 15 \text{ Marks})$

an example.

- 16. a) (i) Interpret the relationships between document databases and other *8,K3,C06* databases. Elaborate on the use cases of the DocumentDB.
 - (ii) Write about the strengths and weaknesses of document databases. 7,K3,CO6
 - OR
 - b) Illustrate how to store and retrieve images from a MySQL database 15,K3,CO6 using PHP.

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create 2

21339