OP-318

Seat No. Total No. of Pages: 3

MAR-APR-2024 SUMMER EXAMINATION

Bachelor of Engineering
Sub. Name: Advanced Database Systems
Sub. Code: 67543/83858/83993

		Sub. Code: 0/043/83808/83993	
Day Time	Total Marks: 70		
Inst	ructions	2. Draw neat labbelet diagrams wherever necessary	
Q1)	Solve f	following MCQ.	[14]
j	i. W	which of the following parallel database architecture is ma	ainly used by
	di	istributed database system?	
		A. Shared Memory	
		B. Shared Disk	
		C. Shared Nothing	
		D. Hierarchical	
j	ii. T	he data stored in the database can be queried using	
		A. XML	
		B. XQuery	
		C. Table	
		D. Records	
j	iii. _	is a popular, open-source, sorted ordered column-family	ly store that is
	m	nodeled on the ideas proposed by Google's Big table.	
		A. HBase	
		B. Hyper table	
		C. Cloud data	
		D. None of the above	
j	iv. W	What kind of database MongoDB is?	
		A. Graph Oriented	
		B. Document Oriented	
		C. Key Value Pair	

D. Column Based

[1] **P.T.O.**

P.T.O.

	v.	Which of the following is the preferred way to recover a database after a transaction in progress terminates abnormally?	
		A. RollbackB. Roll forwardC. Switch to duplicate databaseD. Reprocess transactions	
	vi.	———— mean programs can be written as if a database is not distributed	
		for its user.	
		A. Transparency P. Distribution Transparency	
		B. Distribution TransparencyC. Robustness	
		D. None of Above	
	vii.	Which of the following applied on warehouse?	
		A. write only	
		B. read only	
		C. both a & b	
		D. None of these	
Q2)	Solv	e any 2 of the following (7 Marks Each)	[14]
	1.	What is parallel database system? Explain data partitioning techniques used in parallel databases.	[7]
	2.	How CRUD operation perform in MongoDB. Explain step by step with example.	[7]
	3.	Describe MongoDB. Explain following various commands of MongoDB with syntax and example. A. Use B. Insert() C. Find() D. Save()	[7]
Q3)	Solv	e any 2 of the following (7 Marks Each)	[14]
	1.	What is Dynamic SQL? State its advantage and disadvantages.	[7]
	2.	Explain parallel architectrues.	[7]
	3.	What is CouchDB? Give difference between MongoDB and CouchDB.	[7]
Q4)	Solv	e any 2 of the following (7 Marks Each)	[14]
	1.	How to maintain security for Database Administration?	[7]

[2]

	2.	Enlist and explain Different Mathematical models for decision making	QP-31 [7]
	3.	How the Data Warehouses is useful for Data Analysis?	[7]
Q5)	Q5) Solve any 2 of the following (7 Marks Each)		
	1.	Describe DBA activities with suitable diagram.	[7]
	2.	Explain Online Analytical Processing?	[7]
	3.	Explain in details data mining process.	[7]

