Third Year B.C.A (Semester - I) Examination Paper - 15BCA304

Advanced Database Management System

Time: Three hours]

[Full Marks - 60

- **N.B.:** i) All questions carryequal marks
 - ii) Due credit will be given to neatness & adequate dimensions.
 - iii) Assume suitable data wherever necessary.
 - iv) Illustrate your answer necessary with the help of neat skectches.
 - v) Use Blue/Black ink/refill only for writing the answer book.
- Q.1 Select correct alternative and rewrite the following statements.

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- a) Key to represent relationship between table is called.
 - i) Primary Key
 - ii) Secondary Key
 - iii) Foreign Key
 - iv) None of the above
- b) _____ help to solve concurrency problem.
 - i) locking
 - ii) transcation monitor
 - iii) transcation seriazibility
 - iv) two phase commit
- c) An autonomous homogenous environment is which of the following.
 - i) The same DBMS at each node & each DBMS work independently
 - ii) The same DBMS at each node & a central DBMS coordinates database access.

	ii) A different DBMS is at each node & a central DBM coordinates database accessv) A different DBMS is at each node & a central	MS			What is query processing in distributed DBMS? Explainin detail. State and explain the term scale-up and speed-up.	6 5
i ii ii ir	DBMS coordinates database access. d) ORDBMS stands for i) Object redable DBMS ii) Object relational DBMS iii) Optional relational DBMS iv) None of the above			ĺ	What is OODBMS state and explain it's advantages & disadvantages. Explain in brief:- i) Inheritance ii) Query optimization	6 5
i	The data is stored, retrived & update in, OLAP ii) SMTP iv) FTP		0.0	a)	OR Explain any six abarrataristics of OORDRMS	6
Q.2 a) H b) H	Explain database file organization concept in detail. Explain:-) Database Tuning ii) DBMS Benchmarking	6 5	_		Explain any six characteristics of OORDBMS. Explain in brief: i) Binding Methods ii) Polymorphism	6 5
	OR		~		What is Dataware housing? Explain in detail. What is KDD? Explain steps involved in KDD.	6 5
- /	What is Normalization? Explain with example. Explain Physical database design concept in detail.	6 5		0)	OR	J
	What is Concurrency? How it is controlled explain. What is Log? Explain with example in detail. OR	6 5			What is datamining? State and explain it's application. Explain in brief:- i) DSS	6 5
- /	What is Serialziability? Explain in detail. Explain in detail time stamp ordering protocol.	6 5			ii) OLTP	
b) E	Explain distributed database with their architecture. Explain in detail with suitable example.) Replication i) Fragmentation	6 5			*****	

OR