

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Information Technology

Curriculum Scheme: Rev 2012

Examination: Third Year Semester V

Course Code: TEITC504 and Course Name: Advanced Database Management Systems

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	What is a subquery?
Option A:	A subquery is a select-from-where expression that is nested within another query
Option B:	A subquery is any query that is nested within another query
Option C:	A subquery is a relation that is externally specified which can be used to handle data in queries
Option D:	A subquery is a condition that excludes all the invalid tuples from the database
Q2.	The traditional storage of data that is organized by customer, stored in separate folders in filing cabinets is an example of what type of 'database' system?
Option A:	Hierarchical
Option B:	Network
Option C:	Object oriented
Option D:	Relational
Q3.	If a transaction has obtained a _____ lock, it can read but cannot write on the item
Option A:	Shared mode
Option B:	Exclusive mode
Option C:	Read only mode
Option D:	Write only mode
Q4.	A star schema has what type of relationship from a dimension to the fact table?
Option A:	Many-to-many
Option B:	Many-to-one
Option C:	One-to-one
Option D:	One-to-many
Q5.	Which of the following terms is not related to OLAP systems?
Option A:	Measures
Option B:	Dimensions
Option C:	Square
Option D:	Cube
Q6.	Which scheme is use transaction timestamps for the sake of deadlock prevention alone
Option A:	shortest Job First
Option B:	First In First Out
Option C:	Page replacement Policies
Option D:	wait-die scheme

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Q7.	Which of the following is not true for object identifier (OID) in ODBMS:
Option A:	OID is immutable
Option B:	The value of an OID is visible to the external user
Option C:	OID should not depend on any attribute values of the object
Option D:	OID is used only once
Q8.	Complete encapsulation of objects in ODBMS stands for:
Option A:	all attributes of an object must be predefined
Option B:	Operations a user can apply to an object can be defined later
Option C:	all operations a user can apply to an object must be predefined
Option D:	Attributes of an object can be defined later
Q9.	If a transaction may obtain locks but may not release any locks then it is in _____ phase.
Option A:	Growing phase
Option B:	Shrinking phase
Option C:	Deadlock phase
Option D:	Starved phase
Q10.	Which of the following is used to provide privilege to only a particular attribute?
Option A:	Grant select on employee to Amit
Option B:	Grant update(budget) on department to Raj
Option C:	Grant update(budget, salary, Rate) on department to Raj
Option D:	Grant delete to Amit
Q11.	Which of the following is not used to update the dimension table
Option A:	rapidly changing dimension
Option B:	slowly changing dimensions
Option C:	junk dimension
Option D:	fast changing dimension
Q12.	Which of the following is true about OLTP systems
Option A:	OLTP provides a snapshot of ongoing business activities
Option B:	OLTP systems support planning, problem solving and strategic decision making
Option C:	OLTP systems are periodically updated by batch jobs
Option D:	OLTP systems are used by Management Information System (MIS) and Decision Support Systems (DSS)
Q13.	_____ is a sequences of instructions that specify the chronological order in which instructions of concurrent transactions are executed is
Option A:	Transaction

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Option B:	Program
Option C:	Serializability
Option D:	Schedule
Q14.	Transformation occurs by_____
Option A:	Using rules or lookup tables or by combining the data with other data
Option B:	using filters to remove bad data
Option C:	ERP system to clean the data
Option D:	Analyzing data
Q15.	A data warehouse is which of the following?
Option A:	Can be updated by end users.
Option B:	Contains numerous naming conventions and formats.
Option C:	Organized around important subject areas.
Option D:	Contains only current data.
Q16.	A _____ is a special kind of a stored procedure that executes in response to certain action on the table like insertion, deletion or updation of data.
Option A:	Procedures
Option B:	Triggers
Option C:	Functions
Option D:	Views
Q17.	A fact table in the center with dimension tables directly linked to it
Option A:	star schema
Option B:	starflake schema
Option C:	snowflake schema
Option D:	constellation
Q18.	Which one is not a kind of data warehouse application
Option A:	Transaction processing
Option B:	Information processing
Option C:	Analytical processing
Option D:	Data mining
Q19.	A distributed database has which of the following advantage aver centralized database.
Option A:	Slow response
Option B:	Modular growth
Option C:	Software cost
Option D:	Software complexity
Q20.	The process of removing deficiencies and loopholes in the data is called as
Option A:	Cleaning up of data
Option B:	Extraction of data
Option C:	Aggregation of data
Option D:	Loading of data

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Q21.	Stored procedure is a _____ set of one or more SQL statements.
Option A:	interpreted
Option B:	compiled
Option C:	pre compiled
Option D:	declared
Q22.	Tools that you can easily use with ETL are_____
Option A:	Oracle warehouse builder
Option B:	OL AP
Option C:	BI tools
Option D:	SAS
Q23.	To ensure correctness of distributed commit in DDBS the type of protocol used is?
Option A:	Commit protocol
Option B:	Two phase commit protocol
Option C:	Using check points
Option D:	Log based recovery
Q24.	Which of the following is true for MOLAP system?
Option A:	MOLAP tools rely on a pre-calculated set of data
Option B:	They have a slow response time
Option C:	Any type of queries and questions can be targeted by this approach
Option D:	In this approach, data is loaded from relational databases
Q25.	Storing a separate copy of the database at multiple locations is which of the following?
Option A:	Data Replication
Option B:	Horizontal Partitioning
Option C:	Vertical Partitioning
Option D:	Horizontal and Vertical Partitioning

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	A
Q3.	A
Q4	D
Q5	D
Q6	D
Q7	B
Q8.	C
Q9.	A
Q10.	B
Q11.	D
Q12.	A
Q13.	D
Q14.	A
Q15.	C
Q16.	B
Q17.	A
Q18.	A
Q19.	B
Q20.	A
Q21.	C
Q22.	A
Q23.	B
Q24.	D
Q25.	A