

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Program: BE Computer Engineering
Curriculum Scheme: Rev2016
Examination: Third Year Semester V
Course Code: **CSC502** and Course Name: **Database Management System**

Time: 1 hour

Max. Marks: 50

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

Q1.	Collection of information stored in database at particular moment
Option A:	instance
Option B:	schema
Option C:	view
Option D:	Metadata
Q2.	Which of the following is not a major area for the database administrator?
Option A:	Planning
Option B:	Programming
Option C:	Implementation
Option D:	Security
Q3.	Every weak entity set can be converted into a strong entity set by:
Option A:	adding appropriate attributes
Option B:	using generalization
Option C:	using aggregation
Option D:	Repeating the entity set several times
Q4.	Which of the following can be a multivalued attribute?
Option A:	Name
Option B:	Phone number
Option C:	Date_of_birth
Option D:	ID
Q5.	Which of the following is a single valued attribute?
Option A:	Address
Option B:	Register_number

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Option C:	Reference
Option D:	subject taught
Q6.	Which one of the following is correct ?
Option A:	If a model includes a supertype vehicle and subtypes car, truck and bus then that must be generalization.
Option B:	If a model includes a supertype vehicle and subtypes car, truck and bus then that must be specialization
Option C:	If a model includes a supertype computer and subtypes monitor, keyboard, motherboard then that must be specialization.
Option D:	If a model includes a supertype vehicle and subtypes car, truck and bus then that may be generalization or specialization.
Q7.	Which is a join condition containing an equality operator?
Option A:	Equijoins
Option B:	Cartesian
Option C:	Natural
Option D:	Left
Q8.	In precedence of set operators, the expression is evaluated from
Option A:	Left to left
Option B:	Left to right
Option C:	Right to left
Option D:	From user specification
Q9.	Using Relational Algebra the query that finds name of customers, who have age over 30 years
Option A:	Π customer_name(σ age >30(customers))
Option B:	σ Customer_name(Π age>30(customers))
Option C:	Π age(customers)
Option D:	Π age(σ age >30(customers))
Q10.	_____ is a special type of integrity constraint that relates two relations & maintains consistency across the relations.

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Option A:	Entity Integrity Constraints
Option B:	Referential Integrity Constraints
Option C:	Domain Integrity Constraints
Option D:	Domain Constraints
Q11.	Which SQL statement is used to extract data from a database
Option A:	get
Option B:	display
Option C:	select
Option D:	extract
Q12.	In SQL which is used to select only one copy of each set of duplicate rows?
Option A:	SELECT Distinct
Option B:	SELECT unique
Option C:	SELECT Different
Option D:	SELECT One
Q13.	With SQL, how do you select all the columns from a table named "customers"?
Option A:	select customers
Option B:	select all from customers
Option C:	select *. customers
Option D:	select * from customers
Q14.	Which SQL keyword is used to retrieve a maximum value?
Option A:	Top
Option B:	Max
Option C:	Most
Option D:	Upper
Q15.	Which operator is used to test the column for absence of data?
Option A:	EXISTS operator
Option B:	NOT operator
Option C:	IS NULL operator

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Option D:	SOME operator
Q16.	SELECT * FROM Employee ORDER BY salary ____, name ____; To display the salary from greater to smaller and name in ascending order which of the following options should be used ?
Option A:	Ascending, Descending
Option B:	Descending, Ascending
Option C:	Desc, Asc
Option D:	Asc, Desc
Q17.	A BCNF is
Option A:	Lossless join and dependency preserving
Option B:	Not lossless join but dependency preserving
Option C:	Lossless join but not dependency preserving
Option D:	Join dependency
Q18.	Functional Dependencies are the types of constraints that are based on_____
Option A:	Entity
Option B:	Key
Option C:	Attributes
Option D:	Relationship
Q19.	Every determinant is a key this type of normal form is
Option A:	3NF
Option B:	BCNF
Option C:	2NF
Option D:	4NF
Q20.	In the _____ normal form, a composite attribute is converted to individual attributes.
Option A:	First
Option B:	Second
Option C:	Third
Option D:	Fourth

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Q21.	Forming single logical unit of task from a collection of routine operation is called
Option A:	transaction
Option B:	execution
Option C:	evaluation
Option D:	computation
Q22.	The transaction wants to edit the data item is called as
Option A:	Exclusive Mode
Option B:	Shared Mode
Option C:	Inclusive Mode
Option D:	Unshared Mode
Q23.	Which of the following is the highest isolation level in transaction management?
Option A:	Repeated read
Option B:	Committed read
Option C:	Serializable
Option D:	Uncommitted read
Q24.	Isolation of the transactions is ensured by
Option A:	Transaction management
Option B:	Recovery management
Option C:	Application programmer
Option D:	Concurrency control
Q25.	Sophisticated locking mechanism known as 2-phase locking which includes Growing phase and
Option A:	Shrinking Phase
Option B:	Release phase
Option C:	Commit phase
Option D:	Acquire Phase

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	B
Q3.	A
Q4.	B
Q5.	B
Q6.	D
Q7.	A
Q8.	B
Q9.	A
Q10.	B
Q11.	C
Q12.	A
Q13.	D
Q14.	B

University of Mumbai
Examination 2020 under cluster 4 (PCE)

Q15.	C
Q16.	C
Q17.	C
Q18.	B
Q19.	B
Q20.	A
Q21.	A
Q22.	A
Q23.	C
Q24.	D
Q25.	A