STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2015 – 2016 & thereafter)

SUBJECT CODE: 15BI/PC/DB14

M. Sc. DEGREE EXAMINATION, NOVEMBER 2018 **BIOINFORMATICS** FIRST SEMESTER

COUR		NITE ONTO THE NAME OF THE ORDER						
	ER : DATABASE MANAGEME E : 90 MINUTES		X. MARKS: 50					
		CTION A	21. WIZHRIS. 50					
ANSW	WER ALL QUESTIONS		$(30 \times 1 = 30)$					
1.	Which of the following is a data model?							
	a. Entity-Relationship model,	c. Object-based data model						
	b. Relational data model,	d. All the above						
2.	Entity is a							
	a. Object of relation, c.	Thing in real world						
	b. Present working model d.	Model of relation						
3.	Which command is used to print a file in Linux environment?							
	a. print, b. ptr, c. Ipr	d. None of the men	tioned					
4.	The SQL keywords(s) is used with wildcards.							
	a. LIKE only, b. IN only,	c. NOTIN only,	d. IN and NOT IN					
5.	Linux is an							
	a. Closed source, b. Freeware, c.	open source software,	d. both a and b					
6.	Which command is used to change the J	Which command is used to change the permission of a file?						
		chown,	d. chgrp					
7.	The clause is used to list the attributes desired in the result of a query.							
	a. Where, b. Select, c.	*	d. Distinct					
8.		In linux, the rwx of file properties denotes						
	a. Read write execute c.							
9.	Which one of the following statements about normal forms is FALSE?							
	a. BCNF is stricter than 3 NF							
	b. Lossless, dependency-preserving decomposition into 3 NF is always possible							
	c. Loss less, dependency- preserving decomposition into BCNF is always possible							
10	l. Any relation with two attributes is BCNF							
	O. Referential integrity constraints are also		4 1 1 1 1 1					
11.	1. What is the syntax to load data into the	database? (Consider D a	s the database and a, b, c as					
	data)							
	a. enter into D (a, b, c)							
	b. insert into values (a, b, c)							
	c. insert into D (a, b, c)d. insert into D values (a,b,c)							
	u. miseri mio D values (a,0,0)							

12. Property of normalization of relations which guarantees that functional dependencies are

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	represented in separate relations after decomposition is classified as						
	a.	Nonadditive join property					
	b.	Independency reservation p	Independency reservation property				
	c.	Dependency preservation property					
	d.	Additive join property					
13.	Ha	ashing technique which allocates fixed number of buckets is classified as					
	a.	Dynamic hashing, c.	. Static hashir	ng			
	b.	External hashing d	. Internal hasł	ning			
14.	Co	onsider a B+ tree in which the maximum number of keys in a node is 5. What is the					
	miı	ninimum number of keys in any non-root node?					
	a.	. 1, b. 2, c. 3, d. 4					
15.	The	ne syntax for update command	d in sql is				
16.	Ind	Indexing based on a sorted order of values are called					
	a.	Sequenced indices, c.	c. Hashing indices				
	b.	Ordered indices d	. Structured in	ndices			
17.	Wł	hat is the approximate storage	e capacity of	CDs in MB			
	a.	300, b. 700, c.	. 1100,	d. 1500			
18.	Ra	ange of capacity for number of	of tracks is				
	a.	80 to 120 Kbytes					
	b.	10 to 150 Kbytes					
	c.	20 to 80 Kbytes					
		50 to 100 Kbytes					
19.	Wł	hich of the following is not a	type of SQL	statement?			
	a.	. Data Manipulation Language (DML)					
		Data Definition Language (
	c.	. Data Control Language (DCL)					
		. Data Communication Language (DCL)					
20.	Wł	Which server can join the indexes when only multiple indexes combined can cover the					
	-	ery?					
				d. All of the mentioned			
21.	Th	he Distinct keyword is to use	d to				
	a.	Filter the wildcards					
	b.	Add a string					
		Filter duplicates					
	d.	Match a character					

22. A condition is referred to as							
a. Join in SQL, c	a. Join in SQL, c. Join in SQL and Condition						
b. Join Condition d	b. Join Condition d. None of the mentioned						
23 marks the end of a successful implicit or explicit transaction							
a. COMMIT TRANSA	a. COMMIT TRANSACTION						
b. ROLLBACK TRAN	b. ROLLBACK TRANSACTION						
c. COMMIT WORK							
d. All of the mentioned							
24. Which is a new DDL statement?							
a. DROP ROLES,		c. CREATE USERS					
b. CREATE APPLICA	ATION ROLE	d. None of the mention	oned				
25. Constraints can be applied on							
a. Column, b. Table	, c. Field,	d. All the above					
26. Data integrity constraints are used to:							
a. Control who is allowed access to the data							
b. Ensure that duplicate records are not entered into the table							
c. Improved the quality of data entered for a specific property							
d. Prevent users from changing the values stored in the table							
27. Which statement issues a lock on tables?							
		c. LOCK TABLES,	d. ISSUE LOCKS				
28. In MYSQL, the syntax for creating a database is							
29. Character data can be stored as							
a. Fixed length string,	c. Either Fix	ked or Variable length st	ring				
b. Variable length string, d. None of the above							
30. The datatype for single precision floating point number is							
a. FLOAT, b. DOUBLE, c. INT, d. BIGINT							

SECTION B

ANSWER ANY 2 QUESTIONS

 $(2 \times 10 = 20)$

- 31. Write a detailed note on pipes, filters and wildcards.
- 32. Describe about indexing and hashing in detail.
- 33. Explain about functions of SQL.
- 34. Give an account on constraints in SQL
