STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted from the academic year 2019 – 2020 & thereafter)

SUBJECT CODE: 19BI/PC/DB14

M. Sc. DEGREE EXAMINATION, NOVEMBER 2022 BIOINFORMATICS FIRST SEMESTER

COURSE: COREPAPER: DATABASE MANAGEMENT SYSTEMSTIME: 1½ HOURS

MAX. MARKS: 50

SECTION – A

ANSWER ALL THE QUESTIONS:

(30x1=30)

1. Core of Linux operating system is _____. a) Shell b) Kernel c) Terminal d) Command 2. Which command is used to remove files? b) dm c) erase d) delete a) rm 3. Which of the following combination of keys is used to exit from terminal? a) Ctrl + zb) Ctrl + tc) Ctrl + dd) Ctrl + e4. The range of nice number in linux system is a) -20 to 0 b) -20 to 19 c) 0 to 19 d) 10 to 10 5. 15. User passwords are stored in b) /etc/password a) /root/password c) /etc/passwd d) /root/passwd 6. Single row function performs ______ of the decimal number a) round b) sum c) avg d) none 7. Hidden file can be viewed using . b) ls –l c) ls –h d) Is - k a) ls –a 8. Which command is used to display the operating system name? b) unix c) uname d) kernel a) os

	1	2/	19BI/PC/DB	814
9. Which command is used	to display the u	inix version	on?	
a) kernel	b) uname –t	c) uname	ne – r d) uname - n	
10. A relational database co	onsists of a colle	ection of		
a) Tables	b) Fields	c) Record	rds d) Keys	
11. Which one of the follo	wing is a set of	one or mor	re attributes taken collectively to	
uniquely identify a reco	ord?			
a) Candidate key	b) Sub key	c) Super	key d) Foreign key	
12. Consider attributes ID,	CITY and NAM	ME . Whicl	ch one of this can be considered as	
a super key ?				
a) NAME	b) ID	c) CITY	d) CITY , ID	
13. Which one of the follow	ving cannot be t	aken as a p	primary key ?	
a) Id c) Dept_id		b) Regist d) Street	ter number	
14. Using which language of	can a user reque	st informat	tion from a database ?	
a) Query b) Relational c) Structural d) Compiler				
15. Which one of the following is used to define the structure of the relation ,deleting relations and relating schemas ?				
a) DML(Data Manip	oulation Langau	ge) b)	b) DDL(Data Definition Langauge)	
c) Query		d)	l) Relational Schema	
16. Delete from r; r – relation	on			
This command performs	s which of the fo	ollowing ac	ction ?	
a) Remove relation		b	b) Clear relation entries	
c) Delete fields		d)	l) Delete rows	
17. Which is operator is use	d for appending	g two string	gs.?	
a) &	b) %	c)	d) _	

18. Select is	a	query
---------------	---	-------

a) DDL	b) DML
c) DCL	d) TCL

- 19. Data manipulation language (DML)means
 - a) describes how data are structured in the data base
 - b) specifies for the DBMS what is required; the techniques used to process data
 - c) determine how data must be structured to produce the user's view
 - d) All of the above

20. The language used application programs to request data from the DBMS is referred to as

- a) DML b) DDL c) Query language d) DCL
- 21. Which of the following keyword is used with Data Control Language (DCL) statements?

a) SELECT b) INSERT c) DELETE	d) GRANT
-------------------------------	----------

- 22. Which of the following statements are TRUE?
 - a) A Unique constraint allows multiple rows to have NULL value
 - b) Integrity constraint can be added to a table even if table data is in violation
 - c) A PRIMARY KEY allows a single row to contain NULL
 - d) Both A and B

23. Which of the following statement removes database including its related components?

a) DROP DATABASE	b) DELETE DATABASE
c) REMOVE DATABASE	d) None of the mentioned

24. In the following SQL code, InnoDB is

a) database name b) table name c) reference engine d) storage engine

25. In SQL, Which clause is used to sort query elements?

	a) GROUP	b) GROUP BY	c) ORDER	d) ORDER BY
--	----------	-------------	----------	-------------

26. What is used to perform an analysis of key values by the server? a) ANALYZE KEYS b) ANALYZE TABLE						
	c) PERFORM ANALYSIS		d) PERFORM TABLE ANALYSIS			5
27. MySQL comes with as standard with client libraries for:						
	a) C only	b) Java only	c) Java	and C	d) Perl, PHP and	С
28. Commands passed to the MySQL daemon are written in						
	a) Your choic	e from Perl, PHP, Java	or some	other la	nguages	
	b) English					
	c) the Structur	red Query Language				
	d) Swedish					
29. Which of the following can add a row to a table?						
	a) Alter	b) Add	c) Inser	t d) Create	
30. M	ySQL runs on	which operating system	ns?			
	a) Unix and L	inux only		b) Linux	and Mac OS-X on	ly
	c) Unix, Linux	x, Windows and others	5	d) Any o	perating system at	all

/4/

19BI/PC/DB14

(10x2=20)

SECTION – B

ANSWER ANY TWO QUESTIONS

- 31. Describe about the properties of Linux and write about the basic Linux commands and its functions
- 32. Explain about the Relational Database design. List out the functional dependences and normalization for Relational Databases
- 33. MySQL as an RDBMS Tool Justify with valid explanation
- 34. Explain the set operators and joins that are available in connecting tables.
