

M. Sc. DEGREE EXAMINATION, NOVEMBER 2015
BIOINFORMATICS
FIRST SEMESTER

COURSE : CORE
PAPER : DATABASE MANAGEMENT SYSTEMS
TIME : 90 MINUTES

MAX. MARKS: 50

SECTION A

ANSWER ALL QUESTIONS

(30 X 1 = 30)

1. What is property of Linux ?
A. Multi User B. Multi Processes C. Multi Tasking D. All of above
2. Which among the following is used to write small programs to control Linux functionalities ?
A. Shell Commands B. Shell Script C. C D. Java
3. Which command in LINUX is used for description of any command ?
A. help B. man C. detail D. shortdetail
4. Which command is concerned with LINUX kernel log messages ?
A. dmsg B. dmesg C. cmsg D. cmesg
5. “ tee “ command is used in LINUX for ?
A. Read from an input and write to a standard output and file B. Read from an input
C. Write to an output D. None of above
6. Which of the following program considered as DBMS?
A. Oracle B. Excel C. Photoshop D. Windows
7. Which command in LINUX is concerned with backup ?
A. tar B. zip C. cpio D. untar
8. Which command is used to determine the path of an executable file ?
A. which B. whom C. locate D. wex
9. How many links are created when we create a directory file?
A. 1 B. 2 C. 3 D. 4
10. SQL can be used to:
A. create database structures only B. query database data only
C. modify database data only D. All of the above

11. The SQL keyword BETWEEN is used:
A. for ranges B. to limit the columns displayed.
C. as a wildcard D. None of the above is correct.
12. SQL is:
A. a programming language B. an operating system
C. a data sublanguage D. a DBMS.
13. Which of the following do you need to consider when you make a table in SQL?
A. Data types B. Primary keys C. Default values D. All of the above
14. The SQL keyword(s) _____ is used with wildcards.
A. LIKE only B. IN only C. NOT IN only D. IN and NOT IN
15. Which of the following is the correct order of keywords for SQL SELECT statements?
A. SELECT, FROM, WHERE B. FROM, WHERE, SELECT
C. WHERE, FROM, SELECT D. SELECT, WHERE, FROM
16. Which normal form is considered adequate for relational database design?
A. 2 NF B. 3 NF C. 4 NF D. BCNF
17. A DBMS distributes data processing tasks between the workstation and network server.
A. Network B. Relational C. Client Server D. Hierarchical
18. DBMS helps achieve
A. Data independence B. Centralized control of data
C. Neither A nor B D. Both A and B
19. 15) Data independence means
A. data is defined separately and not included in programs.
B. programs are not dependent on the physical attributes of data
C. programs are not dependent on the logical attributes of data
D. programs are not dependent on the physical and logical attributes of data
20. An advantage of the database management approach is
A. data is dependent on programs B. data redundancy increases
C. data is integrated and can be accessed by multiple programs
D. none of the above

21. State true or false.
i) Select operator is not a unary operator.
ii) Project operator chooses subset of attributes or columns of a relation.
A) i-True, ii-False B) i-True, ii-True C) i-False, ii-True D) i-False, ii-False
22. Which of the following is TRUE for the System Variable \$date\$?
A. Can be assigned to a global variable.
B. Can be assigned to any field only during design time.
C. Can be assigned to any variable or field during run time.
D. Can be assigned to a local variable.
23. What MySQL property is used to create a surrogate key in MySQL?
A.UNIQUE B.SEQUENCE
C.AUTO_INCREMENT D.None of the above
24. MySQL runs on which operating systems?
A. Linux and Mac OS-X only B. Sun Microsystem
C. Unix, Linux, Windows and others D. Unix and Linux only
25. Which SQL statement is used to insert a new data in a database?
A. INSERT INTO B. UPDATE C. ADD D. INSERT NEW
26. The main MySQL program that does all the data handling is called?
A. mysql.exe B. mysql C. mysqld D. httpd
27. In a SELECT with a GROUP BY clause, a WHERE clause, and a HAVING clause, the WHERE conditions are applied before the HAVING conditions
A. True B. Fasle C. Either True or False D. None of the above
28. Which of the following is used to delete an entire MYSQL database?
A. mysql_drop_database B. mysql_drop_entiredb
C. mysql_drop_db D. mysql_drop_dbase
29. The “father” of MySQL is _____.
A. Mihael Widenius B. Bill Joy C. Bill Gates D. Stephanie Wall
30. To use MySQL on your computer, you’ll need?
A. FTP and Telnet
B. Some sort of client program to access the databases
C. A Browser
D. Perl, PHP or Java

SECTION B

ANSWER ANY 2 QUESTIONS

(2 x 10 = 20)

31. Describe the properties and salient features of Linux operating system and write important commands used in Linux.
32. What is SQL? How to design the relational database? Explain the functional dependence and normalization for Relational database.
33. Explain in details about the different file system in RDBMS along with query processing.
34. Give account on data manipulation language and its operations with functions.
