

M. Sc. DEGREE EXAMINATION, NOVEMBER 2018
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. Which of the following is a data model?
 - a. Entity-Relationship model,
 - b. Relational data model,
 - c. Object-based data model
 - d. All the above
2. Entity is a ____
 - a. Object of relation,
 - b. Present working model
 - c. Thing in real world
 - 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 mentioned
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 permission of a file?
 - a. chmod,
 - b. ch,
 - c. chown,
 - d. chgrp
7. The ____ clause is used to list the attributes desired in the result of a query.
 - a. Where,
 - b. Select,
 - c. From,
 - d. Distinct
8. In linux, the rwx of file properties denotes_____
 - a. Read write execute
 - b. Both A and B
 - c. Run write exit
 - d.read and execute
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
 - d. Any relation with two attributes is BCNF
10. Referential integrity constraints are also called as ____.
11. What is the syntax to load data into the database? (Consider D as 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)

12. Property of normalization of relations which guarantees that functional dependencies are represented in separate relations after decomposition is classified as
 - a. Nonadditive join property
 - b. Independency reservation property
 - c. Dependency preservation property
 - d. Additive join property
13. Hashing technique which allocates fixed number of buckets is classified as ____
 - a. Dynamic hashing, c. Static hashing
 - b. External hashing d. Internal hashing
14. Consider a B+ tree in which the maximum number of keys in a node is 5. What is the minimum number of keys in any non-root node?
 - a. 1, b. 2, c. 3, d. 4
15. The syntax for update command in sql is _____
16. Indexing based on a sorted order of values are called ____
 - a. Sequenced indices, c. Hashing indices
 - b. Ordered indices d. Structured indices
17. What is the approximate storage capacity of CDs in MB
 - a. 300, b. 700, c. 1100, d. 1500
18. Range of capacity for number of tracks is
 - a. 80 to 120 Kbytes
 - b. 10 to 150 Kbytes
 - c. 20 to 80 Kbytes
 - d. 50 to 100 Kbytes
19. Which of the following is not a type of SQL statement?
 - a. Data Manipulation Language (DML)
 - b. Data Definition Language (DDL)
 - c. Data Control Language (DCL)
 - d. Data Communication Language (DCL)
20. Which server can join the indexes when only multiple indexes combined can cover the query?
 - a. SQL, b. DBMS, c. RDBMS, d. All of the mentioned
21. The Distinct keyword is to used to
 - a. Filter the wildcards
 - b. Add a string
 - c. Filter duplicates
 - d. Match a character

