Câu 1. Each row in a relation is called _____.
   A. an attribute
   B. a tuple
   C. a union
   D. an attitude

Câu 2. In a three-level DBMS architecture, the layer that interacts directly with the hardware
   is the _____ level.
   A. External
   B. conceptual
   C. internal
   D. physical

Câu 3. In a three-level DBMS architecture, the _____ level interacts directly with the
   users.
   A. External
   B. conceptual
   C. internal
   D. physical

Câu 4. When a sequential file is updated, the _____ file gets the actual update.
   A. new master
   B. old master
   C. transaction
   D. error report

Câu 5. Three security goals are _____.
   A. confidentiality, cryptography, and nonrepudiation
   B. confidentiality, encryption, and decryption
   C. confidentiality, integrity, and availability
   D. confidentiality, denial of service, and masquerading

Câu 6. The RSA algorithm for confidentiality uses _____ cryptography.
   A. asymmetric-key
   B. symmetric-key
   C. substitution
   D. transposition

Câu 7. _____ are keys that hash to the same location in the data file.
   A. Collisions
   B. Buckets

C. Synonyms

D. Linked lists

Câu 8. Of the various database models, the _____ model is the most prevalent today.

A. Hierarchical

B. network

C. relational

D. linked list

Câu 9. Which is not the main principle of ethics?

A. Moral Rules

B. Utilization

C. Social contract

D. Utility

Câu 10. Which of the following attacks is threatening integrity?

A. Masquerading

B. Traffic Analysis

C. Denial of service

D. Encoding

Câu 11. _____ cryptography is often used for long messages.

A. Symmetric-key

B. Asymmetric-key

C. Public-key

D. Open-key

Câu 12. _____ file can be accessed randomly.

A. a sequential

B. An indexed

C. A hashed

D. Any

Câu 13. In a three-level DBMS architecture, the _____ level determines where data is actually stored on the storage devices.

A. External

B. conceptual

C. internal

D. physical

Câu 14. Which is the correct description of Social Contract?

A. Social Contract says that we should avoid doing anything if it is against universal morality

B. Social Contract says that an act is ethical if it brings about a good result

C. Social Contract says that an act is ethical if a majority of people in society agree with it

D. Social Contract says that we should avoid doing anything

Câu 15. The index of an indexed file has _____ fields.

A. two

B. three

C. four

D. any number of

Câu 16. When a sequential file is updated, the _____ file contains the changes to be applied.

A. new master

B. old master

C. transaction

D. error report

Câu 17. In _____cryptography, the same key is used by the sender and the receiver.

A. symmetric-key

B. asymmetric-key

C. public-key

D. open-key

Câu 18. _____ means concealing the contents of a message by enciphering.

A. Steganography

B. Cryptography

C. Compressing

D. Authentication

Câu 19. In _____ cryptography, everyone has access to everyone's public key.

A. symmetric-key

B. asymmetric-key

C. secret-key

D. private-key

Câu 20. _____ file can be accessed sequentially.

A. A sequential

B. An indexed

C. A hashed

D. No

Câu 21. The _____ level of a three-level DBMS architecture defines the logical view of the data.

A. external

B. conceptual

C. internal

D. physical

Câu 22. When a sequential file is updated, the _____ file contains a list of all errors occurring during the update process.

A. new master

B. old master

C. transaction

D. error report

Câu 23. Each column in a relation is called _____.

A. an attribute

B. a tuple

C. a union

D. an attitude

Câu 24. A unary operator is applied to _____ relation(s) and creates an output of _____ relation(s).

A. one, one

B. one, two

C. two, one

D. two, two

Câu 25. Which is the correct description of Moral Rules?

A. Moral Rules says that we should avoid doing anything if it is against universal morality

B. Moral Rules says that an act is ethical if it brings about a good result

C. Moral Rules says that an act is ethical if a majority of people in society agree with it

D. Moral Rules says that we should avoid doing anything

Câu 26. Which of the following attacks is threatening availability?

A. Replaying

B. Modification

C. Denial of service

D. Decoding

Câu 27. In _____ cryptography, the same key is used in both directions.

A. symmetric-key

B. asymmetric-key

C. public-key

D. open-key

Câu 28.   An indexed file consists of _____.

A. only a sequential data file

B. only an index

C. only a random data file

D. an index and random data file

Câu 29.   Which is the correct description of Utilization?

A. Utilization says that we should avoid doing anything if it is against universal morality

B. Utilization says that an act is ethical if it brings about a good result

C. Utilization says that an act is ethical if a majority of people in society agree with it

D. Utilization says that we should avoid doing anything

Câu 30.   The data model and the schema of a DBMS are often defined at the _____ level.

A. external

B. conceptual

C. internal

D. physical