Which of the following microprocessors is not 8bit microprocessor?
   1. 8085
   2. 6502
   3. Z80
   4. 68000
   5. None of these

2. Microprocessor 8085 is the enhanced version of which essentially the same construction set
   1. 6800
   2. 8080
   3. 6800A
   4. 8000
   5. All of these

3. Which of the following interrupts has the lowest priority?
   1. RST 5.5
   2. RST 7.5
   3. TRAP
   4. INTR
   5. None of these

4. The Data control language (DCL).
   1. is used to manage user access to data bases
   2. is used to manipulate the contents of a database in some form
   3. Both (1) and (2)
   4. Used for inserting, deleting and updating data in a database
   5. None of these

5. A collection of fields is called a record with respect of DBMS, a record corresponds to
   1. Tuple
   2. Relation
   3. File
   4. Attribute
   5. None of these.

6. Multiplexer means
   1. One into many
   2. Many into one
   3. Many into many
   4. All of these
   5. None of these

7. Which gate is known as universal gate ?
   1. NOT gate
   2. NAND gate
   3. AND gate
   4. XOR gate

       5. None of the above

8. Which of the following is the first integrated logic family?
       1. TCL
       2. T1L
       3. DTL
       4. MOS
       5. RTL

9. A top to bottom relationship among the items in a database is established by a
       1. Hierarchical schema
       2. Network Schema
       3. Relational Schema
       4. Both (1) and (2)
       5. Both (2) and (3)

10.In the relational schema, each tuple is divided into fields called.
       1. Relations
       2. Domains
       3. Queries
       4. Both (1) and (2)
       5. Both (1) and (3)

11.The modify operation is likely to be done after.
       1. Delete
       2. Insert
       3. Look up
       4. All of the above
       5. None of these

12.The way a particular application views the data from the database that the application uses is a :
       1. Module
       2. Relational model
       3. Schema
       4. Subschema
       5. None of these

13.Which two files are used during operation of the DMBS?
       1. Query language and utilities
       2. Data manipulation language and query language:
       3. Data dictionary and transaction log
       4. Data dictionary and query language
       5. None of these

14.Which normal form is considered adequate for relational database design?
       1. 2 NF
       2. 3 NF
       3. 4 NF
       4. BCNF

5. None of these

15. An attribute of one matching the primary key another table, is called as
   1. Foreign key
   2. Secondary key
   3. Candidate key
   4. Composite key
   5. None of these

16. Which of the following SQL commands can be used modify existing data in a database table?
   1. MODIFY
   2. UPDATE
   3. CHANGE
   4. NEW
   5. None of these

17. Each node in a linked list must contain at least:
   1. Three fields
   2. Five fields
   3. Four fields
   4. One fields
   5. Two fields

18. The average number of key comparisons done in a successful sequential search in a list of length "n" is
   1. Log n
   2. (n−1)/2
   3. n/2
   4. (n+ 1)/2
   5. None of these

19. The order of the binary search algorithm is
   1. n
   2. n^2
   3. nlog(n)
   4. log(n)
   5. None of these

20. Which of the following is useful in implementing quick sort?
   1. Stack
   2. Set
   3. List
   4. Queue
   5. None of these

21. OSI model consists of ____ layers
   1. Three
   2. Five
   3. Six

       4. Eight

       5. Seven

22. Which data communication method is used to transmit the data over a serial communication link.

       1. Simplex

       2. Full duplex

       3. Half duplex

       4. Both (1) and (2)

       5. Both (2) and (3)

23. Encryption and decryption are functions of the ____ layer.

       1. Transport

       2. Session

       3. Application

       4. Physical

       5. Presentation

24. Which of the following is not a connecting device?

       1. Bridge

       2. Trans receiver

       3. Router

       4. Repeater

       5. None of these

25. Repeaters function in the ___ layer

       1. Physical

       2. Data link

       3. Network

       4. Both (1) and (2)

       5. None of these

26. How many hosts are attached to each of the local area network at your site?

       1. 128

       2. 256

       3. 254

       4. 64

       5. None of these

27. Which of the following types of software should we use if we often need to create, edit and print documents?

       1. Word processing

       2. Spread sheet

       3. Object program

       4. UNIX

       5. None of these

28. Thrashing

       1. Can always be avoided by swapping

       2. Is a natural consequence of virtual memory system Always occurs on

      large computers

      3. Can be caused by poor paging algorithms

      4. None of these

29._____ is present in spiral model

      1. Code generator

      2. Risk analysis

      3. Code optimizer

      4. Reengineering

      5. None of these

30. The approach used in top down analysis and design is :

      1. To identify the top level functions by combining many smaller components into a single entity

      2. To identify a top level function and then create hierarchy of lower level modules and components

      3. To prepare flowcharts after programming has been completed

      4. All of these

      5. None of these

31. B2C ecommerce focuses on customer ___.

      1. Respond to customer

      2. Obtain customer feedback

      3. Establish buyerseller transaction

      4. All of the above

      5. None of these

32. OLAP stands for

      1. Online Analytical project

      2. Online Analytical problem

      3. Online Application process

      4. Online Application Problem

      5. Online Analytical processing

33. Data mining is

      1. Storing data when in need

      2. Automatic extraction of patters of information

      3. Searching data on Internet

      4. All of these

      5. None of these

34. Decision support system are based on ____ analysis

      1. Query and reporting

      2. Data mining

      3. OLAP

      4. All of the above

      5. None of these

35. The term push and pop is related to the

      1. Array

    2. Lists

    3. Stacks

    4. All of the above

    5. None of these

36. The break statement causes an exit.

    1. From the innermost loop only

    2. Only from the innermost switch

    3. From the loops and switches

    4. From the innermost loop or switch

    5. None of these

37. Backup procedure helps in

    1. Restoring the operation whenever there is a disk failure

    2. Restoring both application and system software whenever there is disk corruption

    3. Restoring the data sites whenever there is a system crash

    4. All of the above

    5. None of these

38. Software testing is

    1. The process of demonstrating that error are not present

    2. One process of establishing confidence that a program does what it is supposed to do

    3. The process of executing a program to show that it is working as per specifications

    4. The process of executing a program with the intent of finding errors

    5. None of these

39. Regression testing in primarily related to

    1. Functional testing

    2. Data flow testing

    3. Development testing

    4. Maintenance testing

    5. None of these

40. Which of the following is easiest software development process model?

    1. Waterfall Model

    2. Prototyping

    3. Interactive enhancement

    4. Spiral model

    5. All of these

41. Banker's algorithm for resource allocation deals with

    1. Deadlock prevention

    2. Deadlock avoidance

    3. Deadlock recovery

    4. Mutual exclusion

    5. All of these

42. In Queues, the items deleted at one end is called.
    1. Rear
    2. Front
    3. Top
    4. Base
    5. None of these

43. Pointer is used in
    1. Direct Addressing
    2. Indirect Addressing
    3. Indexed mode
    4. Immediate Addressing
    5. None of these

44. An array can be passed in a functions in C language through
    1. 'Call by value' only
    2. 'Call by reference' only
    3. Both (1) & (2)
    4. Call by preference
    5. None of these

45. HTTP refers to
    1. Hyper Text Transmission Protocol
    2. Hyper Text Transfer Protocol
    3. Hyper Text Tie Protocol
    4. Hyper Text Total Protocol
    5. None of these

46. An email account includes a storage area, often called a (n)
    1. Attachment
    2. Hyperlink
    3. Mailbox
    4. Ip address
    5. None of these

47. A(n) ____ is a collection of information that determines which files you can access and which setting you use.
    1. Network
    2. User account
    3. Operating system
    4. File system
    5. None of these

48. To print a document
    1. Select the print command and then select OK
    2. Select the Ready printer and then select OK
    3. Type PRINT and then press Enter
    4. Close the document, select the print command then select OK
    5. None of these

49.Which part of the computer provides only temporary storage of files?
   1. ROM memory
   2. Processor
   3. Hard drive
   4. Mother board
   5. RAM memory

50.What will be the output of "a" in following code?

```
#include<stdio.h>

int main()

int a=20;

{

int a=10;

printf("%d",a);

printf("%d",a); return 0;

}
```

answer choices

   1. 20 20
   2. 10 20
   3. 20 10
   4. 10 10
   5. Compilation Error