

## IBPS SO IT Officer Previous Papers

1. A special type gateway that can keep external users from accessing resources on the LAN users access the external info is called:

1. Repeater
2. Firewall
3. Encryption
4. Hub
5. None of these

2. What is the name given to the exchange of control signals which is necessary for establishing a connection between a modem and a computer at one end of a line and another modem and computer at the other end?

1. Handshaking
2. Modem options
3. Protocol
4. All of these
5. None of these

3. In SQL, which command is used to change data in a data table?

1. UPDATE
2. INSERT
3. BROWSE
4. APPEND
5. None of these

4. In SQL, which of the following is not a data definition language command?

1. RENAME
2. REVOKE
3. GRANT
4. UPDATE
5. None of these

5. Which command(s) is (are) used to redefine a column of the table in SQL ?

1.ALTER TABLE

2.DEFINE TABLE

3.MODIFY TABLE

4.ALL of the these

5.None of these

6.In a relational schema, each tuple is divided into fields called

1.Relations

2.Domains

3.Queries

4.All of the these

5.None of these

7.An indexing operation

1.Sorts a file using a single key

2.Sorts file using two keys

3.Establishes an index for a file

4.Both (1) and (3)

5.None of these

8.Data security threats include

1.Hardware failure

2.Privacy invasion

3.Fraudulent manipulation of data

4.All of these

5.None of these

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

1.DML

2.DDL

3.Query language

4.DCL



We Shine Academy™

5. None of these

10. A \_\_\_ contains the smallest unit of meaningful data, so you might call it the basic building block for a data file.

1. File structures

2. Records

3. Fields

4. Database

5. None of these

11. A \_\_\_ means that one record in a particular record type is related to only one record of another record type.

1. One to one relationship

2. One to many relationship

3. Many to one relationship

4. Many to many relationship

5. None of these

12. Through linked list one can implement

1. Stack

2. Graph

3. Queue

4. All of these

5. None of these

13. A heap allows a very efficient implementation of a

1. Doubled ended queue

2. Priority queue

3. Stack

4. Trees

5. None of these

14. In files, there is a key associated with each record which is used to differentiate among different records. For every file there is at least one set of



We Shine Academy™

keys that is unique. Such a Key is called

- 1.Unique key
- 2.Prime attribute
- 3.Index key
- 4.Primary Key
- 5.Null key

15.\_\_\_\_ is primarily used for mapping host names and email destinations to IP address but can also be used for other purposes.

- 1.TCP(transfer control protocol)
- 2.DNS(Domain Name System)
- 3.SHA (Secure Hash Algorithm)
- 4.Simple Network Management Protocol (SNMP)
- 5.None of these

16.Override is a method

- 1.For an operation that replaces an inherited method for the same operation
- 2.For a data that replaces an inherited method for the same operation
- 3.For an operation that takes arguments form library function
- 4.All of these
- 5.None of these

17.Local variables

- 1.Are created outside a block
- 2.Are known only to that block
- 3.Continue to exist when their block ends
- 4.Are illegal in C++
- 5.None of these

18.\_\_\_\_ is virus that inserts itself into a system's memory. Then it take number of actions when an infected file is executed.

- 1.Web scripting virus
- 2.Polymorphic virus

3. Macro virus

4. Boot sector virus

5. Resident virus

19. This \_\_\_ data mining technique derives rules from real world case examples.

1. Waterfall model

2. RAD

3. White Box

4. Spiral model

5. Case based reasoning

20. The \_\_\_ remains operative until the software is required.

1. Waterfall model

2. Incremental model

3. Spiral model

4. Prototyping model

5. Incremental model

21. Data mining evolves as a mechanism to cater the limitations of \_\_\_ systems to deal massive data sets with high dimensionality, new data type, multiple heterogeneous data resource etc.

1. OLTP

2. OLAP

3. DSS

4. DWH

5. None of these

22. An important application of cryptography, used in computerized commercial and financial transaction

1. Data mining

2. Data warehousing

3. Digital signature

4. Media convergence

5. None of these

23. Rows of a relation are called:

1. Relation
2. Tuples
3. Data structure
4. An entity
5. None of these

24. The drawbacks of the binary tree sort are remedied by the

1. Linear sort
2. Quick Sort
3. Heap Sort
4. Insertion Sort
5. None of these

25. Which layer of OSI determines the interface of the system with the user?

1. Network
2. Application
3. Data link
4. Session
5. None of these

### **Question 26-50**

26. The tracks on a disk which can be accessed without repositioning the R/W heads is

1. Surface
2. Cylinder
3. Cluster
4. All of these
5. None of these

27. Which of the following is true about GUIs?

1. They make computers easier to use for nonprofessionals

2.They use icons and menus that users can select with a mouse

3.Both (1) and (2)

4.All of the these

5.None of these

28.A computer system consisting of its processor, memory and I/O devices accepts data, processes it and produces the output results .Can you tell in which component is the raw data fed?

1.Mass Memory

2.Main Memory

3.Logic Unit

4.Arithmetic unit

5.None of these

29.The mechanical diskette drive in which you insert your diskette is connected to the computer's—bus

1.Data

2.Communication

3.Address

4.Parallel

5.None of these

30.A set of programs that handle firm's database responsibilities is called a

1.Data base Management System (DBMS)

2.Data Base Processing System (DBPS)

3.Data Management System (DMS)

4.All of these

5.None of these

31.You are in the process of analyzing a problem that requires you to collect and store TCP/ IP Packets. Which of the following utilities is best suited for this purpose?

1.NBTSTAT

2.Performance Monitor

3.NETSTAT

4.Network Monitor

5.DHCP Management Console

32.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.All of the above

5.None of these

33.The process of transferring data intended for a peripheral device into a disk (or intermediate store) so that it can be transferred to peripheral at a more convenient time or in bulk is known as

1.Multiprogramming

2.Spooling

3.Caching

4.Virtual programming

5.None of these

34.Which of the following system program forgoes the production of object code to generate absolute machine code and load it into the physical main storage location from which it will be executed immediately upon completion of the assembly?

1.Two pass assembler

2.Load and go assembler

3.Macro processor

4.Compiler

5.None of these

35.Relocation bits used by relocating loader are specifically (generated) by:



1. Relocating loader itself

2. Linker

3. Assembler or translator

4. Macro processor

5. None of these

36. From what location are the 1st computer instructions available on boot up ?

1. ROM BIOS

2. CPU

3. Boot.ini

4. CONFIG.SYS

5. None of these

37. Abstraction is

1. The act of representing the essential features of something without including much detail.

2. The act of representing the features of something much detail

3. A tree structure

4. All of these

5. None of these

38. Aggregation is a special form of

1. Generalization

2. Specialization

3. Association

4. Object

5. None of these

39. Consider an operation of addition. For two numbers, the operation will generate a sum. If the operands are strings, and the same operation would produce a third string by concatenation. This feature is called \_\_\_\_.

1. Inheritance

2. Encapsulation

3. Polymorphism

4. Binding

5. None of these

40. In ER diagrams, the term cardinality is a synonym for the term—

1. Attribute

2. Degree

3. Entities

4. Cartesian

5. None of these

41. An oracle server index—

1. Is a schema object

2. Is used to speed up the retrieval of rows by using a pointer

3. Is independent of the table it indexes

4. All of these

5. None of these

42. Which of the following is not a context free grammar components?

1. Terminal symbols

2. Nonterminal symbol

3. Production line

4. List

5. None of these

43. Which of the following is a phase of RAD model?

1. Business modeling

2. Data modeling

3. Application generation

4. All of the above

5. None of these

44. \_\_\_\_ is a set design steps that allows a DFD with transform flow

characteristics to be mapped into a predefined template for program structure.

- 1.Transaction flow
- 2.Contributor
- 3.Transform mapping
- 4.Design evaluation
- 5.None of these

45.A combinational logic circuit which is used to send data coming from a single source to two or more separate destinations is called as

- 1.Decoder
- 2.Encoder
- 3.Multiplexer
- 4.Demultiplexer
- 5.None of these

46.Which of the following is a universal gate?

- 1.AND
- 2.OR
- 3.EXOR
- 4.NAND
- 5.None of these

47.The two's compliment of binary number 010111.1100 is

- 1.101001.1100
- 2.101000.0100
- 3.010111.0011
- 4.101000.0011
- 5.None of these

48.In 8086 the overflow flag is set when

- 1.The sum is more than 16 bits
- 2.Signed numbers go out their range after an arithmetic operation
- 3.Carry and sign flags are set
- 4.During subtraction

5. None of these

49. What does microprocessor speed depend on?

1. Clock

2. Data bus width

3. Address bus width

4. All of these

5. None of these

50. The TRAP is one of the interrupts available in INTEL 8085. Which one statement is true of TRAP?

1. It is level triggered

2. It is negative edge triggered It is positive edge triggered

3. It is positive edge triggered

4. It is both positive edge triggered and level triggered

5. None of these

## **IBPS Specialist IT Officer Previous Paper 2013**

### **Question 1 to 25**

1. Which of the following microprocessors is not 8-bit 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



We Shine Academy™

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 field

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.  $n \log(n)$

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



We Shine Academy™



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

## Question 26-50

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



We Shine Academy™

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



We Shine Academy™

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



We Shine Academy™