

Place Me Cse Lvl - 1

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Practice Test -01

Q1:

Physical or logical arrangement of network is _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Topology

Routing

Networking

Control

Show Answer Show Explanation

Q2:

Which network topology requires a central controller or hub?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Star

Mesh

Ring
Bus

Show Answer Show Explanation

Q3:

WAN stands for _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

World area network

Wide area network

Web area network

Web access network

Show Answer Show Explanation

Q4:

In TDM, slots are further divided into _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Seconds

Frames

Packets

Bits

Show Answer Show Explanation

Q5:

_____ is the multiplexing technique that shifts each signal to a different carrier frequency.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

FDM

TDM

Both FDM & TDM

PDM

Show Answer Show Explanation

Q6:

Which of this is not a guided media?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Fiber optical cable

Coaxial cable

Wireless LAN

Copper wire

Show Answer Show Explanation

Q7:

UTP is commonly used in _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

DSL

FTP

HTTP

None of the mentioned

Show Answer Show Explanation

Q8:

Fiber optics posses following properties _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Immune electromagnetic interference

Very less signal attenuation

Very hard to tap

All of the mentioned

Show Answer Show Explanation

Q9:

Radio channels are attractive medium because _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

- Can penetrate walls
- Connectivity can be given to mobile user
- Can carry signals for long distance

All of the mentioned

Show Answer Show Explanation

Q10:

In wireless ad-hoc network _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

- access point is not required
- access point is must
- nodes are not required
- all nodes are access points

Show Answer Show Explanation

Q11:

Which among the following represents the objectives/requirements of Data Link Layer?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Frame Synchronization

Error & Flow Control

Both a & b

None of the above

Show Answer Show Explanation

Q12:

Which consequences are more likely to occur during the frame transmission in Stop-and-Wait ARQ mechanism?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Loss of frame or an acknowledgement

Delay in an acknowledgement

Normal operation

All of the above

Show Answer Show Explanation

Q13:

Which feature of Go-Back-N ARQ mechanism possesses an ability to assign the sliding window in the forward direction?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Control Variables

Sender Sliding Window

Receiver Sliding Window

Resending of frames

Show Answer Show Explanation

Q14:

What are the frames issued by the secondary station of HDLC ,known as?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Link

Command

Response

None of the above

Show Answer Show Explanation

Q15:

Which operational mode/s of HDLC support/s the balanced configuration by governing point-to-point link connectivity in addition to the primary as well as secondary functions performed by the station?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

NRM

ABM

Both a & b

None of the above

Show Answer Show Explanation

Q16:

Frame Relay is cheaper than other _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

LANs

WANs

MANs

Multipoint Networks

Show Answer Show Explanation

Q17:

Frame Relay networks offer an option called _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Voice Over For Relay

Voice Over Fine Relay

Voice On Frame Relay

Voice Over Frame Relay

Show Answer Show Explanation

Q18:

There are _____ total features of Frame Relay.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Five

Seven

Nine

Ten

Show AnswerShow Explanation

Q19:

Virtual circuit identifier in frame relay is called _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

data link connection identifier

frame relay identifier

cell relay identifier

circuit connection identifier

Show AnswerShow Explanation

Q20:

Frame relay has only _____

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

physical layer

data link layer

physical layer and data link layer

network layer and data link layer

Show AnswerShow Explanation

Q21:

The process of transforming plain text into unreadable text.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Decryption

Encryption

Network Security

Information Hiding

Show AnswerShow Explanation

Q22:

A process of making the encrypted text readable again.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Decryption

Encryption

Network Security

Information Hiding

Show Answer Show Explanation

Q23:

WTLS stands for?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Wireless Transport Security Layer

Wireless Transfer System Layer

Wireless Transfer Security Layer

Wireless Transport System Layer

Show Answer Show Explanation

Q24:

The protocol designed to make the security of wireless LAN as good as that of wired LAN.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

WTLS

WEP

RSN

WP

Show Answer Show Explanation

Q25:

A person who enjoys learning details about computers and how to enhance their capabilities.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Cracker

Hacker

App controller

Site controller

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Q1:

DHCP stands for

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Dynamic Host Configuration Protocol

Digital Host Communication Provider

Digital Host Communication Protocol

Dynamic Host Configuration Provider

Show Answer Show Explanation

Q2:

If single computer network is divided into segments and router are added between them it forms an

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

- Internet
- Internetwork
- Network

Internetworking[Show Answer](#)[Show Explanation](#)**Q3:**

Check sum is used for

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

- Error correction
- Error detection

Both a & b

- None of these

[Show Answer](#)[Show Explanation](#)**Q4:**

The type of packet format supported by X.25 are as follows

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

- Control packet

- Data packet

Both a & b

- None of these

[Show Answer](#)[Show Explanation](#)**Q5:**

If two or more routers are connected to the same subnet, the network administration determines which of the routers the messages should be sent to eliminate this problem. ___ are used

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

MAC messages

ICMP messages

INDP messages

IMCP messages

Show Answer Show Explanation

Q6:

If two or more routers are available in distributed routing, which route should be selected

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

High possible cost

Least possible cost

Link cost

Both b & c

Show Answer Show Explanation

Q7:

The disadvantages of mobile communication are

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Fixed network needed for the base stations

Handover(changing from one cell to another) necessary

Interference with other cells such as co-channel, adjacent-channel

All of these

Show Answer Show Explanation

Q8:

Keyboard and traditional monitors are examples of

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Simplex devices

Duplex devices

Half Duplex devices

Full Duplex devices

Show Answer Show Explanation

Q9:

Data communications are transfer of data through some

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

transmission medium

linear medium

Network LAN

Protocols

Show Answer Show Explanation

Q10:

The _____ is the virtual path over which a message travels.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Protocol

Medium

Signal

All the above

Show Answer Show Explanation

Q11:

The information to be communicated in a data communications system is the

_____.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Medium

Protocol

Message

Transmission

Show Answer Show Explanation

Q12:

Communication between a computer and a keyboard involves _____ transmission.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

simplex

half-duplex

full-duplex

automatic

[Show Answer](#)[Show Explanation](#)

Q13:

Which organization has authority over interstate and international commerce in the communications field?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

ITU-T

IEEE

FCC

ISOC

[Show Answer](#)[Show Explanation](#)

Q14:

Data flow between two devices can occur in a _____ way.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

simplex

half-duplex

full-duplex

all of the above

[Show Answer](#)[Show Explanation](#)

Q15:

What do you call the board that you fit into an expansion bay at the back of the computer so the computer can be connected to network?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

NIC, or Network Interface Card

NBI, or Network Bonding Instrument

Motherboard

Snow board

Show AnswerShow Explanation

Q16:

Local area networks are big enough to cover what area?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

A single campus

A single house

A single department

A single office building

Show AnswerShow Explanation

Q17:

Which type of network element has a larger storage capacity than the other elements?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Print server

Client

Peer

File server

Show AnswerShow Explanation

Q18:

An advantage of using LAN is that ...?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

The users are at risk for getting a virus.
All the resources can be shared with the others.

The network is inexpensive to maintain.

Well... there is no REAL advantage

Show AnswerShow Explanation

Q19:

This is the simplest wired transmission cable, since it has no aluminium mesh protection around the two core copper wires.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Fibre Optic Cable

Microwave Transmission

Twisted Pair Cable

Coaxial Cable

Show AnswerShow Explanation

Q20:

The device that permits electrical digital signals to be transmitted to a server over regular telephone lines is a

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

multiplexer.

modem.

cluster controller.

front-end processor

Show AnswerShow Explanation

Q21:

The common internetworking cable for connecting a few PCs computers together to share the resources is.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

thick coaxial cable (also called thick wire).

thin coaxial cable (also called thin wire)

Category 5 8-core telephone cable. (RJ45B)

Optical fibre

Show Answer Show Explanation

Q22:

The _____ is the physical path over which a message travels.

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Protocol

Medium

Signal

All of the above

Show Answer Show Explanation

Q23:

In circuit-switching, the path

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

upto destination is allocated before the transmission of message begins

upto next intermediate node is allocated before the transmission of message begins

to be followed depends on the length of the message

none of the above

Show Answer Show Explanation

Q24:

Which of the following item is used to create a webpage?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Home Page and Website

HTML and Authoring Tool

ISP and Web Browser

Internet and URL

Show Answer Show Explanation

Q25:

Which of the following is NOT a type of transmission media?

Tags:

Kalsee_CSE

Section:

CSE Miscellaneous

Options:

Coaxial

Twisted Pair

Modem

Microwave

Practice Test -02

- 1) What is the correct syntax to declare a function foo() which receives an array of structure in function?

Ans: void foo(struct *var)

- 2) The worst case running time to search an element in a balanced Binary search tree with n elements is

Ans: $O(n)$

- 3) To construct a B+ tree, consider the following data
Data block size = 512 bytes, record
Pointer as 7 bytes
Block Pointer = 6 bytes & search key value = 9 bytes

What's the data of the B+ tree internal node

Ans: 34

- 4) Construct a B+ tree for the following set of key values (2, 3, 5, 7, 11, 17, 19, 23, 29, 31) Initially the tree is empty & values are added in the above given order. What will be the root of the connected B+ tree if the number of points that will fit in one node is 6.

Ans: 7,19

- 5) Consider the given statements about B tree & B+ tree. When do you want to use B tree instead of B+ tree.

- (i) When sequential access to key value is never required
- (ii) When sequential access to key value is required
- (iii) When Both sequential access & direct access is required
- (iv) When direct access is required without sequential access

Ans: IV only

- 6) The following postfix expression with single digit operands is evaluated using a stack: 8 2 3 ^ / 2 3 * + 5 1 * -

Note that \wedge is the exponentiation operator. The top two elements of the stack after the first $*$ is evaluated are:

Ans: 6,1

- 7) Convert the following infix expressions into its equivalent postfix expressions $(A + B \wedge D) / (E - F) + G$

Ans: $(A B D \wedge + E F - / G +)$

- 8) To evaluate an expression without any embedded function calls:

Ans: One stack is enough

- 9) Consider the function f defined below.

```
struct item
{
    int data;
    struct item * next;
};

int fun(struct item *p)
{
    return ( (p == NULL) ||
            (p->next == NULL) ||
            ((P->data <= p->next->data) && fun(p->next)));
}
```

For a given linked list p, the function f returns 1 if and only if

Ans: The elements in the list are sorted in non-decreasing order of data value

10) Consider the following Binary Tree given below. what is the successor of node G in inorder:

Ans: A

11) What is the height of B+ tree with order-m & having N-keys?

Ans: $\lceil \log m / 2N \rceil$

12) Let A be a square matrix of size $n \times n$. Consider the following program. What is the expected output? C = 100 for i = 1 to n do for j = 1 to n do

{

Temp = A[i][j] + C

A[i][j] = A[j][i]

A[j][i] = Temp - C

} for i = 1 to n do for

j = 1 to n do

Output(A[i][j]); Ans: The matrix

A

itself

13) How many distinct BSTs can be created out of 4 distinct keys?

Ans: 14

14) The order of an internal node in a B+ tree index is the maximum number of children it can have.

Suppose that a child pointer takes 6 bytes, the search field value takes 14 bytes, and the block size is 512 bytes. What is the order of the internal node?

Ans: 26

15) Suppose implementation supports an instruction REVERSE, which reverses the order of elements on the stack, in addition to the PUSH and POP instructions. Which one of the following statements is TRUE with respect to this modified stack?

Ans: A queue can be implemented where ENQUEUE takes a sequence of three instructions and DEQUEUE takes a single instruction

16) A function f defined on stacks of integers satisfies the following properties. $f(\theta) = 0$ and $f(\text{push}(S, i)) = \max(f(S), 0) + i$ for all stacks S and integers i.

If a stack S contains the integers 2, -3, 2, -1, 2 in order from bottom to top, what is $f(S)$?

Ans: 3

17) Given a hash table T with 25 slots that stores 2000 elements, the load factor α for T is _____

Ans: 80

18) Consider an implementation of unsorted single linked list. Suppose it has its representation with a head and a tail pointer (i.e. pointers to the first and last nodes of the linked list). Given the representation, which of the following operation can not be implemented in O(1) time?

Ans: Deletion of the last node of the linked list.

19) What is a hash table?

Ans: A structure that maps keys to value

20) In a section of data into B++ tree may cause

Ans: Secondary key index

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Practice Test -03

1) The mean of a 5,6,9 _____ Ans:None of the above

2) $1 + 2 + 3 + \dots + n$ Ans: $n(n+1)/2$

3) What is the median of the sample 5, 5, 11, 9, 8, 5, 8 ? Ans:8

- 4) What is worst case of bubble sort? Ans: None of the above
- 5) Mathematical induction principle consists of steps Ans: All of the above
- 6) Mean of n objects is _____ Ans: (Sum of n objects) / n
- 7) Sum of first n natural number is Ans: $n(n+1)/2$
- 8) A null graph is having
Ans: Vertices only
- 9) Correlation coefficient lies between Ans: All of the above
- 10) The highest frequency data is called as
Ans: Mode
- 11) Correlation coefficient is Ans: Both A & B
- 12) Which of the following is the type of sorting?
Ans: All of the above
- 13) A tree with n vertices has ___ edges. Ans: $n-1$
- 14) Mode for the data: 2,2,2,5,5,5,9,9,9 Ans: None of the above
- 15) ___ is the geometric mean of two regression coefficients Ans: Correlation coefficient
- 16) The method of design encompassing the process of object oriented decomposition and a notation for depicting both logical and physical and as well as static and dynamic models of the system under design is known as: Ans: Object- Oriented Design
- 17) Median can be measured graphically
Ans: Yes

18) A Tree is

Ans: Connected graph

19) Measure of central tendency (select correct option) Ans: Mean deviation

20) If both the regression coefficients are negative then the correlation coefficient is Ans:
Negative

21) The following scores were obtained by eleven footballers in a goal-shoot competition: 5 3 6 8 7 8 3 11 6 3 2, The modal score was_____
Ans: 3

22) A minimal spanning tree of a graph g is

Ans: All of the above

23) In the principle of mathematical induction, which of the following steps is mandatory? Ans: Induction hypothesis

24) The middle value of an ordered array of numbers is the
Ans: Median

25) If graph G has n vertices and m edges then spanning tree of G has Ans: n vertices and n-1 edges.

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Practice Test -04

- 1) In which of the following mechanisms, types of all variables and expressions are fixed at compilation time. Ans: Static Binding/ early binding 2) What is a copy constructor?
Ans: A constructor to initialize an object with the values of another object
- 3) Why constructors are efficient instead of a function init() defined by the user to initialize the data members of an object? Ans: All of the mentioned
- 4) The process of compartmentalizing the elements of an abstraction that constitute its structure and behavior is called as Ans: Encapsulation
- 5) What is Inheritance in C++?
Ans: Deriving new classes from existing classes
- 6) What is the index number of the last element of an array with 9 elements? Ans: 8
- 7) Which among the following best describes polymorphism?
Ans: It is the ability for many messages/data to be processed in one way
- 8) Which among the following best describes polymorphism?
Ans: It is the ability for a message/data to be processed in more than one form
- 9) What will you use if you are not intended to get a return value? Ans: Void
- 10) What happens if a user forgets to define a constructor inside a class?
Ans: Compiler provides a default constructor to avoid faults/errors
- 11) Which among the following can't be used for polymorphism? Ans: Static member functions
- 12) Which of the following is the default return value of functions in C++? Ans: int
- 13) Which of the following is important in a function?
Ans: Both return type and function name
- 14) An operation can be described as? Ans: Object & Class behavior

15) executes most frequently and makes the fine grained decision of which process to execute the next. Ans: Short-term scheduling

16) Which of the following accesses the seventh element stored in array? Ans: array[6];

17) What among the following statement is true?

Ans: All of the mentioned

18) How many parameters does a default constructor require? Ans: 0

19) What is the role of a constructor in classes?

Ans: To initialize the data members of an object when it is created

20) Which of the following diagram is not supported by UML considering Data-driven modeling?

Ans: Data Flow Diagram (DFD)

21) What is multiplicity for an association?

Ans: The multiplicity at the target class end of an association is the number of instances that can be associated with a single instance of source class

22) The essential characteristics of an object that distinguish it from all other kinds of objects and thus provide crisply defined conceptual boundaries, relative to the perspective of the viewer is called:

Ans: Abstraction

23) What is the programming style of the object oriented conceptual model? Ans: Classes and objects

24) Which type of function among the following shows polymorphism? Ans: Virtual function

25) Which among these are the rules to be considered to form Class diagrams? Ans: Class symbols must have at least a name compartment

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Practice Test -05

1) Spanning tree T is subgraph of connected graph G if

Ans: Both A and B

2) The following conditions of policy must be present for a deadlock to be possible.

i) Mutual exclusion ii) Hold and wait iii) No preemption iv) Circular wait Ans: All i, ii, iii and iv

3) Isolation property is also known as..... Ans: Serializability

4) State whether true or false.

i) Multithreading is useful for application that perform a number of essentially independent tasks that do not be serialized.

ii) An example of multithreading is a database server that listens for and process numerous client request.

Ans: i-True, ii-True

5) With only one process can execute at a time; meanwhile all other process are waiting for the processor. With more than one process can be running simultaneously each on a different processor.

Ans: Multiprogramming, Multiprocessing

6) The Determines when a page should be brought into main memory. Ans:

Fetch policy

7) A direct method of deadlock prevention is to prevent the occurrence of Ans: Circular waits

8) A thread is a.....

Ans: light weight process

9) is the ability of multiple process to co-ordinate their activities by exchange of information Ans:

Synchronization

10) With a page is brought into main memory only when the reference is made to a location on that page.

Ans: Demand paging

11) The two central themes of modern operating system are..... Ans: Multiprogramming and Distributed processing

12) Which of the following are the functions of operating system? i) recovering from errors ii) facilitating input/output

iii) facilitating parallel operation iv)

sharing hardware among users v) implementing user interface

Ans: All i, ii, iii, iv and v

13) ensures that once transaction completes successively, the results of the operations become

Ans: durability

14) The policy segments the disks request queue into sub queues of the length N. Ans: N-Step SCAN

15) File management function of the operating system includes

i) File creation and deletion ii) Disk scheduling iii) Directory creation iv) Mapping file in secondary storage

Ans: i, iii and iv only

16) refers to the ability of multiple process (or threads) to share code, resources or data in such a way that only one process has access to shared object at a time. Ans: Mutual Exclusion

17) With A page is written out to secondary memory only when it has been selected for replacement. Ans: Demand cleaning

18) Can be defined as the permanent blocking of a set of processes that either complete for system resources or communicate with each other. Ans: Deadlock

- 19) A process is created and is initially put in the..... Ans: Ready queue
- 20) provides a larger sized of virtual memory but require virtual memory which provides multidimensional memory. Ans: Segmentation method
- 21) Which directory implementation is used in most of the Operating System? Ans: Tree directory structure
- 22) Which directory implementation is used in most of the Operating System? tree directory structure is a large operating system core provides a wide range of services. Ans: Macro kernel
- 23) State true or false.
- With paging, each process is divided into relatively small, fixed-size pages.
 - Segmentation provides for the use of pieces of varying size. Ans: Memory management
- 24) is a large kernel containing virtually the complete operating system, including, scheduling, file system, device drivers and memory management. Ans: Monolithic kernel
- 25) Techniques can be used to resolve conflicts, such as competition for resources, and to synchronize processes so that they can cooperate. Ans: Mutual Exclusion

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Practice Test -06

1) Which of the following is not an important condition for preventive maintenance? Ans: none of them

2) The term Operations Research was coined in the year Ans: 1978

3) What is a collection of software engineering work tasks, milestones, and deliverables that must be accomplished to complete a particular project?

Ans: Task set

4) "Budgeting, analysis of investment proposals, and provision of funds are activities associated with the _____ function."

Ans: finance

5) Which of the following does not belongs to project planning technique? Ans:IRR (internal rate of return)

6) Operations Research has the characteristics the it is done by a team o Ans: Scientists

7) "The time between its earliest and latest start time, or between its earliest and latest finish time of an activity is " Ans: slack time

8) Process layout is used for

Ans: repetitive processing

9) The problem is a special type of linear programming problem where the objective is to minimise the cost of distributing a product from a number of sources or origins to a number of destinations Ans: transportation problem

10) Transportation problem is a special type of Linear problem Ans: True

11) What involves preparing software for external release and keeping track of the system versions that have been released for customer use? Ans: Release management

12) "Which of the following is true for Inventory control?

Ans: All of them

13) Operations Research (OR) , which is a very powerful tool for

Ans: Decision – Making

14) Manufacturing work sent to other countries is called:

Ans: Outsourcing

15) As a software manager, when you will decide the number of people required for a software project?

Ans: After an estimate of the development effort is made.

16) _____ is the incidental residue from certain types of manufacture usually of low value recoverable without further processing. Ans: Wastage

17) What aims at optimizing inventory levels? Ans: Inventory Planning

18) In north west method, rule of allocation is done Ans: Upper left corner

19) Which of the following is an activity that distributes estimated effort across the planned project duration by allocating the effort to specific software engineering tasks? Ans: Software project scheduling

20) Which of the following is a project scheduling method that can be applied to software development? Ans: Both PERT and CPM

21) Operations Research cannot give perfect ----- to problems

Ans: Both A and B

22) The solution of transhipment problem is said to be optimal if it Ans: Minimize the cost

23) " _____ is the result of various causes such as substandard materials, bad supervision, and carelessness in planning etc." Ans: Defective work

24) "Which of the following is a production planning technique? "

Ans: Loading

25) The objective of the transportation problem which is to be maximized is to Ans: All of them

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Practice Test -07

- 1) The number of 1's in each row of an incidence matrix of a graph G is equal to _____. Ans: the degree of the corresponding vertices
- 2) The number of vertices of odd degree in a graph is always _____. Ans: even
- 3) The specification of proper construction of a sentence is called _____. Ans: Syntax
- 4) The specification of proper construction of a sentence is called _____. Ans: length
- 5) The NAND statement is a combination of _____.
Ans: NOT and AND
- 6) If a relation is reflexive then in the graph of a relation there must be a loop at _____. Ans: Each mode
- 7) $P \rightarrow Q \rightarrow (\neg Q)$ is _____.
Ans: not a well formed formula
- 8) A directed complete graph of n vertices contains _____.
Ans: one arrow between each pair of distinct vertices
- 9) A graph in which every vertex has same degree is called _____ graph. Ans: regular
- 10) If a relation is reflexive, then all the diagonal entries in the relation matrix must be _____. Ans: 1

11) A sum of the variables and their negations in a formula is called _____ Ans: elementary sum

12) The composition of function is associative but not ____ Ans: commutative

13) A path of a graph is said to be _____ if it contains all the edges of the graph.

Ans: eulerian

14) If P then Q is called _____ statement.

Ans: conditional

15) Min-terms of two statements are formed by introducing the connective _____ Ans:
Conjunction

16) Accepting states are denoted by ____

Ans: double circle

17) If there are more than 2 LMD for a string then it is said to be _____ Ans: Ambigious

18) A finite non-empty set of symbols is called ____

Ans: alphabet

19) An example for regular grammar is ____

Ans: S tends to aB

20) Surjective function is also called ____

Ans: onto

21) Surjective function is also called ____

Ans: a tautology

22) If there are n distinct components in a statement then there are _____ combinations of
values in the truth table.

Ans: Minimize the cost

23) A relation R is defined on the set of integers as xRy if and only if $(x+y)$ is even. Which of the
following statement is TRUE?

Ans: R is an equivalence relation having two equivalence classes

24) If R is reflexive, symmetric and transitive then the relation is said to be ____ Ans: Equivalence
relation

25) The minimum number of edges in a connected graph with n vertices is ____ Ans: $n-1$

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Practice Test -08

- 1) A B+ tree can contain a maximum of 7 pointers in a node. What is the minimum number of keys in leaves? Ans:3
- 2) A technique for direct search is Ans: Hashing
- 3) A hash table can store a maximum of 10 records, currently there are records in location 1, 3,4,7,8,9,10. The probability of a new record going into location 2, with hash functions resolving collisions by linear probing is Ans: 0.6
- 4) The goal of hashing is to produce a search that takes Ans: O(1) time
- 5) A _____ consists of a sequence of query and/or update statements. Ans: Transaction
- 6) The method in which records are physically stored in a specified order according to a keyfield in each record is Ans: Hash
- 7) The relational model feature is that there
Ans: is much more data independence than some other database models.
- 8) 'AS' clause is used in SQL for Ans: Rename operation
- 9) Relational calculus is a

Ans: Non-Procedural language

10) How many types of indexes are there in sql server? Ans: 2

11) Which of the following is true?

Ans: B + tree allows rapid random access as well as rapid sequential access

12) B + tree allows rapid random access as well as rapid sequential access Ans: commit

13) What is the purpose of the index in sql server?

Ans: All of the mentioned

14) In the relational modes, cardinality is termed as: Ans: Number of tuples

15) In an E-R diagram attributes are represented by

Ans: ellipse

16) The way a particular application views the data from the database that the application uses is a

Ans: sub schema

17) _____ will undo all statements up to commit?

Ans: Rollback

18) A table on the many side of a one to many or many to many relationship must: Ans: Have a composite key

19) The database environment has all of the following components except: Ans: users

20) Cartesian product in relational algebra is Ans: a Binary operator

21) Transaction processing is associated with everything below except Ans: confirming an action or triggering a response.

22) The language which has recently become the defacto standard for interfacing application programs with relational database system is Ans:SQL

- 23) The file organization that provides very fast access to any arbitrary record of a file is Ans:
Hashed file
- 24) How non clustered index point to the data?
Ans: It is used for pointing data rows containing key values
- 25) In a relational model, relations are termed as Ans: Tables

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Practice Test -09

- 1) Into which of these types are formal reports not classified?
Ans: Oral
- 2) When is the worst time to break into a discussion?
Ans: When two or three people are talking simultaneously
- 3) Which of these is not a type of interview? Ans: Lunch interview
- 4) Contingency theories of leadership based upon:
Ans: That there is no single style of leadership appropriate to all situations

- 5) James is speaking on a complex and detailed topic. He wants to create visuals that will help the audience understand his subject more clearly. How might James achieve this goal? Ans: Using low-contrast ink
- 6) Which kind of interview includes a process in which the employability of the job applicant is evaluated? Ans: Behavioural interview
- 7) Which of these is not mentioned in a bio-data? Ans: Career aim
- 8) Which of these interviews is adapted for computer programmers? Ans: The audition
- 9) How many styles are used in a screening interview? Ans: Four

10) What is the best way to keep an audience engaged when giving a speech?
Ans: By presenting information the audience agrees with

11) How many references are usually given in a resume?
Ans: Four

12) Before you begin writing your presentation, what should you consider?
Ans: The overall aim of the presentation

13) Which types of leadership remains underexplored through research?
Ans: leadership of organisations

14) Which of these is not a formal report?
Ans: Routine

15) What does it mean for a presentation to be audience-centered?
Ans: the presenter researches the audience's demographics, needs, motivations and characteristics.

16) Which of these is not mentioned in a resume? Ans: Age

17) In which of these interviews, insults are common?

Ans: Group interview

18) Which of these are vital for any organisation? Ans: Group discussions

19) Which of these reports provide information without any evaluation? Ans: Interpretative

20) Regarding leadership, which statement is false?

Ans: When people operate as leaders their role is always clearly established and defined

21) What is NOT a way to make a message stick? Ans: Repeat Key ideas

22) According to design principles, what color font goes well on a black background? Ans: white

23) _____ report provides rational findings.

Ans: Progress

24) Which of these is usually written in a form of a memorandum?

Ans: Business reports

25) Interviews are conversations with _____ Ans: friendliness

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Practice Test -10

1) "The feature of Pentium II is....." Ans: "All of the mentioned"

2) "The _____ of the memory chip will identify and select the register for the EPROM." Ans: "Internal decoder"

3) "_____ is the most important segment and it contains the actual assembly language instructions to be executed by the microprocessor." Ans: "Code segment"

4) "The register which holds the information about the nature of results of arithmetic or logic operations is called as....." Ans: "Flag register"

5) "If the microprocessor has 10 address lines, then the number of memory locations it is able to address is....."
Ans: 1024

6) "Which of the unit is not the part of the internal architecture of 80386?" Ans: None

7) "The segmentation unit allows....."
Ans: "All of the mentioned"

8) Which of these interviews is adapted for computer programmers? Ans: Two

9) "If segment address = 1005 H, offset address = 5555 H, then the physical address is ____."
Ans: 155A5 H

10) "Which is not part of execution unit?"
Ans: "Address conversion mechanism"

11) "Which stack is used in 8085 microprocessors? Ans: FILO"

12) "The number of output pins of a 8085 microprocessor are:" Ans: 27

13) "The signal that is used to insert WAIT states in a bus cycle in 80386
is....."
Ans: READY

14) "The unit that has a prioritizer to resolve the priority of the various bus requests
is....."

Ans: "Bus control unit"

15) The instruction RET executes with the following series of machine cycle:

Ans: "Fetch, read, read"

16) "_____ has been enhanced to provide higher performance for multimedia & communication applications."

Ans: "Pentium processor with MMX technology"

17) "The primary function of the _____ is to accept data from I/P devices."

Ans: "Microprocessor"

18) "The BIU prefetches the instruction from memory and store them in _____. " Ans: Queue

19) "Which of the following is a 16-bit register?"

Ans: AX

20) The program counter in 8085 microprocessor is a 16-bit register, because.....

Ans: "There are 16 address times"

21) "The memory management unit consists of _____. "

Ans: "Segmentation and paging unit"

22) "If _____ flag is set; the processor enters the single step execution mode." Ans: Trap

23) "_____ generate interrupt signal to microprocessor and receive acknowledge." Ans:
"Control logic"

24) "Microprocessor provides signal like _____ to indicate the read operation." Ans: "MCMR"

25) "The index register is used to hold _____. " Ans: "Offset address"

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Practice Test -11

- 1) "The operation performed on data structure:"
Ans: "All of these"
- 2) "Performance based on the criteria of algorithm, which has to do with its storage requirement is _____. Ans: "space complexity"
- 3) "Which algorithm specifies the addition of edges to the Spanning Tree in an increasing order of cost?
Ans: Kruskal's
- 4) "Which type of linked lists comprises a node containing a pointer to predecessor as well as successor?
Ans: "Both a and b"
- 5) "The smallest element of an array's index is called:
Ans: "lower bound"
- 6) "Which method uses to search element in sorted list? Ans: "Binary Search"
- 7) "Which sort is a divide-conquer technique? Ans: "Merge sort"
- 8) "Heapify() procedure belongs to which sort? Ans: "Heap sort"
- 9) "A Vertex comprising only incoming edges without any outgoing edges, specifically known as _____. Ans: "Sink"
- 10) "Deleting an item from the stack when stack is not empty is called _____ operation. Ans: Pop"
- 11) "Condition of overflow in stack is: Ans: "TOP = Maxsize - 1"
- 12) " $f(n) \leq c(g(n))$ function represents which notation? Ans: "Big Oh"
- 13) "The concept where insertion and deletion takes place in one end is:

Ans: Stack

14) "Linear arrays are also called _____.
Ans: "1D array

15) "How many rotation operation are there in AVL tree?
Ans: 4

16) "How many types of data types are there?
Ans: 4

17) "How many types of queue are there?
Ans: 4

18) "Collection of field values of a given entity is called: Ans: Record

19) "The complexity of linear search is: Ans: " $O(n)$

20) "How many operations are there in 1D array? Ans: 7

21) "The use of pointers to refer elements of a data structure in which elements are logically adjacent is: Ans: "linked allocation

22) "Insertion takes place at _____ in queue. Ans: Rear

23) "Which amongst the following cannot be a balance factor of any node of an AVL tree? Ans: 2

24) "Partition procedure belongs to which sort? Ans: "Quick sort

25) "A binary tree whose every node has either zero or two children in called: Ans: "Extended binary tree

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Practice Test -12

- 1) The pointers which are not initialized in a program are called Ans: null pointers
- 2) Which function return the current position of the get or put pointer in bytes. Ans: tellp()
- 3) What are the escape sequences?
Ans: Set of characters that convey special meaning in a program
- 4) Because the lifetime of a local variable is limited and determined automatically, these variables are also called Ans: automatic
- 5) What are the formal parameters in C++?
Ans: Parameters which are used in the definition of the function
- 6) The inherits some or all of the properties of the class. Ans: derived, base
- 7) To overload an operator keyword must be used along with the operator to be overloaded. Ans: Operator
- 8) Which function is used to read a single character from the console in C++? Ans: cin.get(ch)
- 9) In compile-time polymorphism, a compiler is able to select the appropriate function for a particular call at the compile time itself, which is known as Ans: All of the above
- 10) Which function is used to write a single character to console in C++? Ans: cout.put(ch)

11) What does the cerr represent?

Ans: Standard error stream

12) When a base class is privately inherited by derived class public members of the base class can only be accessed by the of the derived class. Ans: member functions

13) Which of the following escape sequence represents tab? Ans: \t

14) Which of the following statements is incorrect?

Ans: Destructor of base class should always be virtual.

15) How many ways of reusing are there in class hierarchy? Ans: 2

16) How many ways of reusing are there in class hierarchy? Ans: VAR_1234

17) In C++ operator is used for Dynamic memory allocation. Ans: New

18) Class templates are generally used for storage classes.

Ans: Public members of the base class become public members of derived class. 19) A class can be derived from another derived class which is known as inheritance. Ans: multilevel

20) A derived class with only one base class is called inheritance. Ans: Single

21) When Virtual Table is created?

Ans: Class has atleast one Virtual Function

22) Constructor is executed when _____.

Ans: An object is created

23) Which of the following keywords is used to control access to a class member? Ans:
Protected

24) is useful in creating objects at run time.

Ans: Object pointer

25) Which of the following is a valid class declaration?

Ans: Class A { int x; };

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CSE - Practice Test -13

- 1) Which of the following statement(s) about stack data structure is/are NOT correct? Ans:
Stack is the FIFO data structure
- 2) What are the disadvantages of arrays? Ans: All of the mentioned
- 3) Which of these unbalanced sequences does the above code think is balanced? Ans: ((())
- 4) Which data structure is needed to convert infix notation to postfix notation? Ans: Stack
- 5) Consider an array consisting of -ve and +ve numbers. What would be the worst time comparisons an algorithm can take in order to segregate the numbers having same sign altogether i.e all +ve on one side and then all -ve on the other ? Ans: N-1
- 6) Consider the usual algorithm for determining whether a sequence of parentheses is balanced. The maximum number of parentheses that appear on the stack AT ANY ONE TIME when the algorithm analyzes: ((())()) are: Ans: 3
- 7) Assume that the operators +, -, × are left associative and ^ is right associative. The order of precedence (from highest to lowest) is ^, ×, +, -. The postfix expression corresponding to the infix expression a + b × c - d ^ e ^ f is
Ans: abc × + def ^ ^ -

- 8) Which of these best describes an array? Ans: `cin.get(ch)`
- 9) When does the `ArrayIndexOutOfBoundsException` occur? Ans: Run-time
- 10) The postfix form of the expression $(A+ B)*(C*D- E)*F / G$ is ? Ans: $AB+ CD*E - FG /*$
- 11) Which of the following operations is not $O(1)$ for an array of sorted data. You may assume that array elements are distinct? Ans: Delete an element

12) In a stack, if a user tries to remove an element from empty stack it is called _____

Ans: Underflow

13) Comment on the following statement: `int (*a)[7];` Ans: A pointer "a" to an array.

14) Comment on the 2 arrays regarding P and Q: `int *a1[8];
int *a3[8];`

P. Array of pointers

Q. Pointer to an array Ans: a1 is P, a2 is P

15) Which of the following applications may use a stack? Ans: All of the mentioned

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Practice Test -14

- 1) If the element "A", "B", "C", & "D" are Placed in a queue and are deleted one at a time, in what order they will be removed? Ans: ABCD

2) Which of the following sorting algorithms can be used to sort a random linked list with minimum time complexity? Ans: Merge sort

3) What is the output of following function for start pointing to first node of following linked list?

1>2->3->4->5->6 Ans: 1 3 5 5 3 1

4) Which of the following can be the base case for the recursive implementation used to find the length of linked list?

Ans: if(current_node == 0) return 0

5) Which of the following is true about linked list implementation of queue? Ans: Both a and b

6) What is the time complexity of the following iterative implementation used to find the length of a linked list? Ans: $O(n)$

7) Above function takes a Queue as an argument and uses a stack S to do processing. What does the above function do in general?

Ans: Reverses the Q

8) Is it possible to create a doubly linked list using only one pointer with every node? Ans: Yes, possible by storing XOR of addresses of previous and next nodes

9) What are the time complexities of finding 8th element from beginning and 8th element from end in a singly linked list?

Let n be the number of nodes in linked list, you may assume that $n > 8$ Ans:

$O(1)$ and $O(n)$

10) A normal QUEUE, if implemented using an array of size MAX-SIZE, gets full when Ans: Rear = MAX-SIZE - 1

11) Which of the following is not an application of Priority QUEUE? Ans: BFS algorithm

12) New elements are added to the..... of the QUEUE?

Ans: Rear

13) Consider the following statements:

- i. First-in-first out types of computations are efficiently supported by STACKS.
- ii. Implementing LISTS on linked lists is more efficient than implementing LISTS on an array for almost all the basic LIST operations.
- iii. Implementing QUEUES on a circular array is more efficient than implementing QUEUES on a linear array with two indices.
- iv. Last-in-first-out type of computations are efficiently supported by QUEUES.

Which of the following is correct

Ans: (ii) and (iii) are true

- 14) The following C function takes a single-linked list of integers as a parameter and rearranges the elements of the list. The function is called with the list containing the integers 1, 2, 3, 4, 5, 6, 7 in the given order. What will be the contents of the list after the function completes execution?

```
struct node { int value;
struct node *next;
};

void rearrange(struct node *list)
{ struct node *p, *q; int temp; if ((!list) || !list->next) return; p = list; q = list->next;
while(q) { temp = p->value; p->value = q->value; q->value = temp; p = q->next; q =
p?p->next:0;
}
}
```

} Copy

Now

Ans: 2,1,4,3,6,5,7

- 15) What does the following Piece of code do?

Public object function ()

```
{ If (isEmpty ()) return -999; else {
Object high; high = Queue[front] return
high; {
}}
```

{Copy Now Ans:

Return of the Front element

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Practice Test -15

- 1) Suppose you are given a binary tree with n nodes, such that each node has exactly either zero or two children. The maximum height of the tree will be Ans: $(n-1) / 2$
- 2) What is the time complexity of searching for an element in a circular linked list? Ans: $O(n)$
- 3) Which of the following traversals outputs the data in sorted order in a BST? Ans: Inorder
- 4) Which of the following sorting algorithms can be used to sort a random linked list with minimum time complexity?
Ans: Merge sort
- 5) The number of structurally different possible binary trees with 4 nodes is Ans: 14
- 6) Which of the following pairs of traversals is not sufficient to build a binary tree from the given traversals? Ans: Preorder and postorder
- 7) B+ trees are preferred to binary trees in databases because Ans: Disk access is much slower than memory access
- 8) What does the following function do for a given Linked List with first node as head?

```
void XYZ(struct node* head)
{ if(head == NULL) return;
XYZ(head->next); printf("%d ", head-
>data);
```

}

Ans: Prints all nodes of linked list in reverse order

9) The maximum number of binary trees that can be formed with three unlabeled nodes is: Ans: 5

10) Which of the following points is/are true about Linked List data structure when it is compared with array?

Ans: All of the above

11) Consider a node X in a Binary Tree. Given that X has two children, let Y be Inorder successor of X. Which of the following is true about Y? Ans: Y has no left child

12) Which of these is an application of linked lists? Ans: All of the mentioned

13) What are the worst-case complexities of insertion and deletion of a key in a binary search tree?
Ans: O(n) both insertion and deletion

14) The height of a binary tree is the maximum number of edges in any root to leaf path. The maximum number of nodes in a binary tree of height x is: Ans: $2^{x+1}-1$

15) While inserting the elements 71, 65, 84, 69, 67, 83 in an empty binary search tree (BST) in the sequence shown, the element in the lowest level is Ans: 67

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Practice Test -16

- 1) In which of the following tree, Parent node has a key value greater or equal to the key value of both its children? Ans: Max-heap

- 2) Given the Pre order Traversal of a binary Search Tree, which of the following is the Postorder traversal of the tree?

Given pre order: 15, 6, 3, 2, 4, 7, 13, 9, 18, 17, 20

Ans: 2,4,3,9,13,7,6,17,20,18,15

- 3) While inserting the elements 30, 20, 60, 25, 50, 22, 15, 80, 90, 55, 45, 18, 10, 65, 85 in an empty Binary Search tree in the sequence above, the height of the Binary Search tree is: (consider root node at level 0)

Ans: 4

- 4) A tree with n nodes will have how many edges?

Ans: n-1

- 5) What does the following Piece of code do?

```
Public void func (Tree root)
{
    Func (root.key ());
    Func (root.right ());
    Printf ("% d", root.data ());
}
```

Copy Now

Ans: Post-order Traversal

- 6) An array consists of n elements. We want to create a heap using the elements. The time complexity building a heap will be in order of

Ans: $O(n \log n)$

- 7) A Priority-Queue is implemented as a Max-Heap. Initially, it has 5 elements. The levelorder traversal of the heap is given below: 10, 8, 5, 3, 2

Two new elements "1" and "7" are inserted in the heap in that order. The level-order traversal of the heap after the insertion of the elements is :

Ans: 10,8,7,3,2,1,5

- 8) What is converse in-order of the Binary tree?\ Ans: DEABC

- 9) A BST (Binary Search Tree) is generated by inserting in order the following integers: 50, 15, 62, 5, 20, 58, 91, 3, 8, 37, 60, 24

The number of the nodes in the left sub tree & the right sub tree of the root respectively is: Ans: (7,4)

10) Which type of traversal of BST(Binary Search tree) outputs the values in sorted order Ans: Inorder

- 11) X is a binary tree node given that X has two children. Let Y be In order successor of X. which is true about Y.

Ans: Y has no left child

12) The worst time to Perform Search operation on an BST

Ans: $O(n)$

- 13) The value returned by foo when a pointer to the root of a binary tree is passed as its argument is
Ans: Diameter of the tree

- 14) The height of a BST is given as h. consider the height of the tree as the no. of edges in the longest Path from the root to leaf. The maximum no. of nodes possible in the tree is? Height of the root node is taken as 0. Ans: $2^{h+1}-1$

15) Heap cap can be used as: Ans: Priority Queue

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Practice Test -17

- 1) What can be the techniques to avoid collision? Ans: All of the above
- 2) In _____ input is a directed acyclic Graph (DAG) Ans: Topological sort
- 3) In a simple graph, the number of edges is equal to the twice the sum of the degrees of the vertices. Ans: False
- 4) Which one is the most generalized single source shortest Path algorithm to find shortest Path in a graph even with negative weights? Ans: Bellman ford Algorithm
- 5) What is the Search complexity indirect addressing? Ans: O(1)
- 6) Floyd warshall Algorithm used to solve the shortest path problem has a time complexity of. Ans: $O(v^3)$
- 7) From a complete graph, by removing maximum how many edge we can construct a spanning tree?
Ans: $e-n+1$
- 8) Hashing Techniques which allocates Fixed number of brackets is classified as Ans: External Hashing
- 9) Consider a Hash table T with 25 slots that stores 2000 elements, the load factor & For T is:
Ans: 80
- 10) Which of the following data structure is non linear type? Ans: Graph
- 11) A complete graph can have Ans: $n(n-1)/2$ spanning tree
- 12) Given an undirected graph G with V vertices and E edges, the sum of the degrees of all vertices is Ans: $2E$
- 13) Let G be a simple graph with 20 vertices and 8 components. If we delete a vertex in G, then number of components in G should lie between _____. Ans: 7 and 19
- 14) A directed graph is _____ if there is a path from each vertex to every other vertex in the digraph Ans: Strongly Connected

- 15) Which of the following data structure is useful in traversing a given graph by breadth first search? Ans: Queue

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Mock Test -01

- 1) Which of the following is not a type of computer virus? Ans: Firewall
- 2) What is Data Mining?
Ans: Finding hidden patterns in data
- 3) What is the primary advantage of parallel processing? Ans: Higher performance
- 4) Which of the following is a database management system? Ans: Oracle
- 5) Which device is used to connect two or more networks together? Ans:
Router
- 6) Which of the following is NOT a linear data structure? Ans: Tree
- 7) Which of the following is NOT a type of parser? Ans: None of the above
- 8) Which of the following is NOT a data mining technique?
Ans: Sorting

9) Which data structure uses LIFO (Last In First Out) principle? Ans: Stack

10) Which of the following is NOT an example of an Operating System?
Ans: Microsoft Office

11) Which of the following is NOT a phase of a compiler? Ans: Logical Analysis

12) Who created Linux?

Ans: Linus Torvalds

13) What is Linux?

Ans: An operating system

14) Which of the following is not a type of algorithm? Ans: None of the above

15) Which of the following is not a type of database model? Ans:
Sequential

16) What does the acronym HTML stand for? Ans: Hyper Text Markup Language

17) Which of the following is NOT a type of automata?

Ans: None of the above

18) Which of the following is a regular language?

Ans: $\{anbn \mid n \geq 0\}$

19) Which of the following is NOT a characteristic of parallel processing?
Ans: Synchronous communication

20) Which algorithm is used to find the shortest path between two nodes in a graph? Ans: Dijkstra's Algorithm

21) What is an Operating System?

Ans: A program that runs on a computer to manage its resources

22) What is a computer network?

Ans: A group of interconnected computers that share resources

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