ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD

Class : 12	Subject : COMPUTER SCIENCE	Term : FIRST TERM	Max Marks : 60

Q 1 : _____ is defined as the physical medium through which the signals are transmitted **Marks :** 1

1 . Guided media

2 . Bounded media

3 . Both Guided & Bounded Media ✅ (This Answer is Correct)

4 . Unguided media

Q 2 : Grounding cable is required in **Marks :** 1

1 . STP ✅ (This Answer is Correct)

2 . UTP

3 . Both STP & UTP

4 . None of these

Q 3 : GUI(Graphical user interface) is optional in **Marks :** 1

1 . File server ✅ (This Answer is Correct)

2 . Workstation

3 . Both File server & workstation

4 . None of these

Q 4 : A _____WAN can be developed using leased private lines or any other transmission facility **Marks :** 1

1 . Hybrids

2 . peer-to-peer ✅ (This Answer is Correct)

3 . Two-tiered

4 . Three-tiered

Q 5 : A _____ is a hardware component, typically a circuit board or chip, which is installed on a computer so that it can connect to a network. **Marks :** 1

1 . NIC ✅ (This Answer is Correct)

2 . Hub

3 . Router

4 . Bridge

Q 6 :   A frame in token ring network is transmitted in _____ direction of the token.   **Marks :**   1

    1 . Same   ☑ (This Answer is Correct)

    2 . Opposite

    3 . Depends on the network

    4 . None of these

Q 7 :   A _____ is a device that channels incoming data from multiple input ports to a specific output.   **Marks :**   1

    1 . Repeater

    2 . Hub

    3 . Switch   ☑ (This Answer is Correct)

    4 . NICs

Q 8 :   The data in token ring flows in _____ direction.   **Marks :**   1

    1 . Anti-clock wise

    2 . Clock wise   ☑ (This Answer is Correct)

    3 . Depends on the data

    4 . Random

Q 9 :   The following are components of a database except: **Marks :**   1

    1 . User data

    2 . Meta data

    3 . Reports   ☑ (This Answer is Correct)

    4 . Indexes

Q 10 :   The _____ clause is used to list the attributes desired in the result of a query   **Marks :**   1

    1 . Where

    2 . Select   ☑ (This Answer is Correct)

    3 . From

    4 . Distinct

Q 11 :   Which of the following pair of attribute is required for img tag?   **Marks :**   1

    1 . Img and alt

    2 . Src and a

3 . Img and src

4 . Src and alt   ☑ (This Answer is Correct)

Q 12 :   _____ cables are very cheap and easy to install, but they are badly affected by the noise   **Marks :**   1
interference.

1 . STP

2 . UTP   ☑ (This Answer is Correct)

3 . Co-axial

4 . Optical Fiber

Q 13 :   Data rate in UTP is _____ compared to STP.   **Marks :**   1

1 . Slow   ☑ (This Answer is Correct)

2 . Fast

3 . Equal

4 . Cannot be determined

Q 14 :   Maintenance requirement in STP is _____ compared to UTP   **Marks :**   1

1 . more   ☑ (This Answer is Correct)

2 . less

3 . Equal

4 . Cannot be determined

Q 15 :   The name of the cable is _____ as it contains two conductors - an inner conductor and an outer   **Marks :**   1
conductor separated by insulation.

1 . Coaxial   ☑ (This Answer is Correct)

2 . Fibre-optic

3 . STP

4 . UTP

Q 16 :   _____ is a computer that provides an immensely fast and accurate type of graphics, higher   **Marks :**   1
performance, and more scalability.

1 . Supercomputer

2 . Workstation   ☑ (This Answer is Correct)

3 . Server

4 . None of these

Q 17 :   File server needs :   **Marks :**   1

1 . Working memory

2 . Processing power

3 . Both Working & Processing memory   ✅ (This Answer is Correct)

4 . None of these

Q 18 :   In file server, authorised users can perform the following :   **Marks :**   1

1 . Read data

2 . Modify data

3 . Upload data

4 . All of these   ✅ (This Answer is Correct)

Q 19 :   A term that refers to the way in which the nodes of a network are linked together.   **Marks :**   1

1 . network

2 . topology   ✅ (This Answer is Correct)

3 . connection

4 . interconnectivity

Q 20 :   The participating computers in a network are referred to as: **Marks :**   1

1 . Clients

2 . Servers

3 . Nodes   ✅ (This Answer is Correct)

4 . CPUs

Q 21 :   It is a topology for a Local Area Network in which all the nodes are connected to a single cable.   **Marks :**   1

1 . Bus   ✅ (This Answer is Correct)

2 . Ring

3 . Daisy chains

4 . Star

Q 22 :   Which of the following is a basic network topology?   **Marks :**   1

1 . mesh

2 . ring

3 . Bus

4 . All of these   ✅ (This Answer is Correct)

Q 23 :   In a _____ relationship, the link is shared equally between devices.   **Marks :**   1

1. peer-to-peer　　　　　　　　　　　　☑ (This Answer is Correct)

2. point-to-point

3. master-slave

4. All of these

Q 24 : _____ is a network topology in which each node connects to exactly two other nodes, forming a single continuous pathway for signals through each node.　　　　**Marks :** 1

1. Bus

2. Ring　　　　　　　　　　　　☑ (This Answer is Correct)

3. Mesh

4. Star

Q 25 : In which of the following, every host is connected to a central hub?　　　　**Marks :** 1

1. Bus

2. Ring

3. Mesh

4. Star　　　　　　　　　　　　☑ (This Answer is Correct)

Q 26 : Machine that places the request to access the data is generally called as:　　　　**Marks :** 1

1. server

2. client　　　　　　　　　　　　☑ (This Answer is Correct)

3. hub

4. switch

Q 27 : A _____ is a networking device that is used to connect two local area networks (LANs) by using media access control addresses and transmit the data between them.　　　　**Marks :** 1

1. Switch

2. Router

3. Bridge　　　　　　　　　　　　☑ (This Answer is Correct)

4. All of these

Q 28 : A token ring network is a _____ whose topology prevents the collision of data between two computers.　　　　**Marks :** 1

1. LAN　　　　　　　　　　　　☑ (This Answer is Correct)

2. MAN

3. WAN

4. All of these

Q 29 :   A _____ joins two networks so that devices on one network can communicate with the devices   **Marks :**   1
on another network.

1 . Switch

2 . Gateway   ☑ (This Answer is Correct)

3 . Bridge

4 . All of these

Q 30 :   _____ refers to the basic facts and entities, such as names, numbers, etc.   **Marks :**   1

1 . Data   ☑ (This Answer is Correct)

2 . Information

3 . Input

4 . Output

Q 31 :   Which of the following is not a feature of database?   **Marks :**   1

1 . Data redundancy   ☑ (This Answer is Correct)

2 . Independence

3 . Flexibility

4 . Data integrity

Q 32 :   An attribute is a _____ in a relation.   **Marks :**   1

1 . Row

2 . Column   ☑ (This Answer is Correct)

3 . Value

4 . Tuple

Q 33 :   A row is also called _____ in a relation.   **Marks :**   1

1 . table

2 . Column

3 . Value

4 . Tuple   ☑ (This Answer is Correct)

Q 34 :   The minimal set of super key is called: **Marks :**   1

1 . Primary key

2 . Secondary key

3 . Candidate key   ☑ (This Answer is Correct)

4 . foreign key

Q 35 :   In formal relational model, the set of indivisible values is called: **Marks :**   1

    1 .   range

    2 .   domain   ✅ (This Answer is Correct)

    3 .   relation

    4 .   tuple

Q 36 :   Which of the following establishes a dedicated connection and is always on?   **Marks :**   1

    1 .   Leased Line   ✅ (This Answer is Correct)

    2 .   Circuit switching

    3 .   Packet Switching

    4 .   None of these

Q 37 :   A _____ connects our computer to a standard phone line or cable, so that we can send data or   **Marks :**   1
receive data.

    1 .   Hub

    2 .   Gateway

    3 .   Modem   ✅ (This Answer is Correct)

    4 .   All of these

Q 38 :   The _____ clause allows us to select only those rows in the result relation of the ____ clause that   **Marks :**   1
satisfy a specified predicate.

    1 .   Where, from   ✅ (This Answer is Correct)

    2 .   From, select

    3 .   Select, from

    4 .   From, where

Q 39 :   Examples of text editors: **Marks :**   1

    1 .   MS Paint

    2 .   Notepad   ✅ (This Answer is Correct)

    3 .   MS Excel

    4 .   None of these

Q 40 :   Which operator performs pattern matching?   **Marks :**   1

    1 .   BETWEEN operator

    2 .   LIKE operator   ✅ (This Answer is Correct)

    3 .   EXISTS operator

4 . None of these

Q 41 : To remove a relation from an SQL database, we use the _____ command. **Marks :** 1

1 . Delete

2 . Merge

3 . Remove

4 . Drop table ✅ (This Answer is Correct)

Q 42 : How are the sequential circuits specified in terms of time sequence? **Marks :** 1

1 . By Inputs

2 . By Outputs

3 . By Internal States

4 . All of the above ✅ (This Answer is Correct)

Q 43 : The frequency range for twisted pair cable is from : **Marks :** 1

1 . 0 to 3.5 KHz. ✅ (This Answer is Correct)

2 . 0 to 4.5 KHz.

3 . 0 to 5.5 KHz.

4 . None of these

Q 44 : _____cable consists of an inner copper core and a second conducting outer sheath. **Marks :** 1

1 . Coaxial ✅ (This Answer is Correct)

2 . Fibre-optic

3 . STP

4 . Twisted-pair

Q 45 : The inner core of an optical fiber is _____ in composition. **Marks :** 1

1 . Copper

2 . Plastic or glass ✅ (This Answer is Correct)

3 . Bimetallic

4 . Liquid

Q 46 : In _____, operations are in forms of Business, engineering etc. **Marks :** 1

1 . workstations ✅ (This Answer is Correct)

2 . file server

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3 .   mainframes

4 .   All of these

Q 47 :   _____ can switch their services(request or fetch).   **Marks :**   1

   1 . Workstation   ☑ (This Answer is Correct)

   2 .   File Server

   3 .   Mainframes

   4 .   None of these

Q 48 :   _____ is embedded into network card (known as Network Interface Card) during the time of   **Marks :**   1
        manufacturing.

   1 . MAC address   ☑ (This Answer is Correct)

   2 .   IP address

   3 .   LLC address

   4 .   Port number

Q 49 :   When the signal becomes weak, _____ copy the signal bit by bit and regenerate it at the   **Marks :**   1
        original strength.

   1 . Repeater   ☑ (This Answer is Correct)

   2 .   Hub

   3 .   Switch

   4 .   NICs

Q 50 :   Which level of database is viewed by user?   **Marks :**   1

   1 .   Internal level

   2 . External level   ☑ (This Answer is Correct)

   3 .   Conceptual level

   4 .   All of these

Q 51 :   Who proposed the relational model?   **Marks :**   1

   1 .   Bill Gates

   2 . E.F Codd   ☑ (This Answer is Correct)

   3 .   Herman Hollerith

   4 .   Charles Babbage

Q 52 :   Modem modulator converts :   **Marks :**   1

1 .   Digital to analog signal

2 .   Analog to digital signal   ✅ (This Answer is Correct)

3 .   Digital to Hybrid signal

4 .   None of these

Q 53 :   With the help of HTML, we can create _____ web pages.   **Marks :**   1

1 .   Dynamic

2 .   Static   ✅ (This Answer is Correct)

3 .   Both Dynamic & Static

4 .   None of these

Q 54 :   _____ is the root element.   **Marks :**   1

1 .   < head >

2 .   < title >

3 .   < body >

4 .   < html >   ✅ (This Answer is Correct)

Q 55 :   Whose job is to interpret tags and display the content properly?   **Marks :**   1

1 .   Web browser   ✅ (This Answer is Correct)

2 .   Text Editors

3 .   HTML

4 .   Internet

Q 56 :   Updates that violate _____ are disallowed.   **Marks :**   1

1 .   Integrity constraints   ✅ (This Answer is Correct)

2 .   Transaction control

3 .   Authorization

4 .   DDL constraints

Q 57 :   Which of the following is not an aggregate function?   **Marks :**   1

1 .   Avg

2 .   Sum

3 .   With   ✅ (This Answer is Correct)

4 .   Min

Q 58 :   1

The behaviour of synchronous sequential circuit can be predicted by defining the signals at _____.

Marks :

1 . discrete instants of time   ☑ (This Answer is Correct)

2 . continuous instants of time

3 . sampling instants of time

4 . at any instant of time

Q 59 : _____ allows a circuit to become active at the positive or negative edge of the clock signal.   **Marks :** 1

1 . Positive level triggering

2 . Negative level triggering

3 . Edge triggering   ☑ (This Answer is Correct)

4 . None of these

Q 60 : One example of the use of an S-R flip-flop is as _____   **Marks :** 1

1 . Transition pulse generator

2 . Racer

3 . Switch debouncer   ☑ (This Answer is Correct)

4 . Astable oscillator