



Database

Q1. Explain the following Terms with one suitable example

DBMS	Database Management System A collection of <u>programs</u> that enables you to <u>store</u> , modify, and extract information from a <u>database</u>
RDBMS	RDBMS stands for Relational Database Management System. RDBMS store the data into collection of tables, which might be related by common fields.
Relation	Table in a database is called relation where data is organized in rows and columns
Attribute	A Field/Column in a Relation /Table is Called Attribute
Tuple	A record /row in a Relation /Table is called Tuple
Cardinality	Number of records /Rows in a Relation is called Cardinality
Degree	Number of Fields /Attribute in a Relation is called Degree
Candidate Key	A candidate key is a combination of attributes that can be uniquely used to identify database record. Each table may have one or more candidate keys. One of these candidate keys is selected as the table primary key.
Primary Key	The PRIMARY KEY constraint uniquely identifies each record in a table. Primary keys must contain unique values. A primary key column cannot contain NULL values. Each table can have only ONE primary key.
Alternate Key	An alternate key is similar to a primary key. It accepts null values; where as the primary key does not.
Foreign Key	foreign key is a field in a <u>relational table</u> that matches the primary key column of another table. The foreign key can be used to join two table with the help of common key

Q2. Give Three characteristics of each Data type with two suitable data of each

AutoNumber	The AutoNumber data type automatically generates a unique number for each record that's added to a table AutoNumber values are not reused, so deleted records can result in gaps in count. Can only be integer Sequential in order Other similar Attribute examples are Book_Id B101,B102,B103
Text	Can store alpha Numeric character upto 255 character Can store date in single line text box Can be sorted Example Name: "Vijay", Emp_Id: E101, City: "Delhi" Name/Emp_id/City are attributes having data type : Text Other similar Attribute examples are Book_title, zip codes, MovieName

Number	<p>Can store Numeric value of Integer or Decimal (real) type User enter the Value, can be non sequential Duplication is possible if not a Primary key attribute Example Roll 2 Marks 94.3 Roll / Marks are attributes having data type : Number Other similar Attribute examples are Quantity, size, length, weight, speed, scores, percentages</p>
Memo	<p>Can store Alpha Numeric Value more than 255 characters Can store multiple line value Cannot be sorted Memo does not support Input Mask</p> <p>Example Address: Flat no-1,Block-1 Abu Halifa, Kuwait Comments Very Good Keep it up!!!!!!</p> <p>Other similar Attribute examples are Long texts like article body text, blog posts, long descriptions</p>
Currency	<p>It allow to store monetary values with appropriate sign, commas and decimals. Example Price Rs. 500 Fee \$ 2,000 Other similar Attribute examples are Rate, Sale Price, Amount, Balance</p>
Date/Time	<p>It allows to store Date values. It can't hold more than 8 digits. It can store system date, containing date and time information. Example ExamDate 02/20/2016 MovieDate 2-Dec-2015 Roll / Marks are attributes having data type : Number Other similar Attribute examples are Birth date, order date, expiration date, creation date, subscription date</p>
Boolean	<p>data type used for logical value(true/false) in the database This data type is used for yes/no questions Null values are not allowed in Yes/No fields Boolean does not support Input Mask</p> <p>Example Subscription Yes is_dispatched True Subscription / is_dispatched are attributes having data type : boolean Other similar Attribute examples are</p>
OLE	<p>OLE Data type is used to store sound , picture, file etc. to database OLE does not support Input Mask OLE data type cannot be sorted Example Photograph c:\abc.jpg CV c:\abc.doc Photograph / CV are attributes having data type : OLE (these are used to store photograph and document) Other similar Attribute examples are Moviefile, to store movie file</p>
Hyperlink	<p>Use to store a hyperlink, such as an e-mail address or a Web site URL. A hyperlink can be a UNC path or a URL. It can store up to 2048 characters. Example Website www.abc.com Email abc@gmail.com Other similar Attribute examples are BlogName www.myblog/abc.html</p>

- **One to One** : In a one-to-one relationship, a row in table A can have no more than one matching row in table B, and vice versa. A one-to-one relationship is created if both of the related columns are primary keys or have unique constraints

Example**Table : Student**

Adm_No	Name	Class	DOB	Percentage
A101	Sujata	12 A	09/08/1984	78
A102	Anju	12 A	12/07/1983	82
A103	Ananth	12 C	07/08/1984	67

Table ParentDetail

And_No	Father Name	Father_ EMail	Mobile
A101	Aman Sharma	Aman123@gmail.com	8989898990
A102	Vijay Gupta	V.gupta@gmail.com	6767676778
A103	Karan Malhotra	Malhotra.k@hotmail.com	5555666656

- **One to Many**: A one-to-many relationship is the most common type of relationship. In this type of relationship, a row in table A can have many matching rows in table B, but a row in table B can have only one matching row in table A

Table: Doctor

Doc no	Doc Name	Speciality
134	A.K. Sharma	Surgery
204	R. Khurana	Dentist
301	S. Shyam	Neurology
280	P.John	Dermatology

Table: Patient

Name	P_no	Date_Admm	Doc_no
Mohan	P_101	21/03/2006	301
Priya	P_204	03/04/2006	134
Suraj	P_375	15/01/2006	204
Komal	P_424	24/06/2006	134

Q4. Name the Following

- An attribute which is capable of becoming a primary key. **Candidate Key**
- The view in which we can add, edit and view records in MS-Access. **Datasheet View**
- A data type used for linking to an internet or another location in the database. **Hyperlink**
- A built in set of rules Access uses to make sure that the relationship is valid . it can also prevent accidental deletion or editing of data. **Referential integrity**
- Alphanumeric characters upto 65,535 characters. **Memo**
- The number of records in a relation. **Cardinality**

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- vii) A data type used for logical value(true/false) in the database. **Boolean**
 - viii) A key that does not allow Null values and must always have a unique value. **Primary Key**
 - ix) The number of fields in a relation. **Degree**
 - x) Key used to relate two tables. **Foreign Key**
 - xi) Any two data types used to store alphanumeric characters in Access. **Text & Memo**
 - xii) sound,picture, other data such as MS-Word /MS-Excel file can be store in this data type **OLE**
 - xiii) A data type which can be used to automatically store monetary values with appropriate sign, commas and decimals **Currency**
 - xiv) Data type which can store Photograph of a person **OLE**
 - xv) Extension of MS-Access Database file . ,**accdb & .mdb**
 - xvi) A part of the Microsoft Office suite that is used to create and manage databases **MS Access**
 - xvii) Key which can uniquely identify the record but it is not be primary key **Candidate Key**
 - xviii) Key which is made up of two or more attribute **Composite Key**
 - xix) Generating conditional records from single table or multiple table **Query**
 - xx) Key Symbol before the field in design view indicate **Primary Key**

Q5. What is Validation Rule ? Give One Example?

Set of rules which governs what type & in which format the data can be enter in the field. If user Entered data not satisfying the rule it will give error message.

For Example if in Price Field user must enter value greater than 50 that's a validation rule set for Price Field. if he try to enter less than 50 in this field Ms Access not allow user to do so.

Q6. What is Input Mask? the data types that do not support this property

Input masks provide a set format for data entry in a field by using characters and symbols. When you apply an input mask to a field, anyone who inputs data in that field must follow the specific pattern defined by the input Mask .

Datatype Like Memo & OLE does not support Input mask.

Q7. What is Query ?

Generating conditional records from single table or multiple table based on certain criteria

Q8 What is referential integrity in DBMS?

Referential integrity is a database concept that ensures that relationships between tables remain consistent when one table has a foreign key to another table. It prevent form accidental deletion and inconsistent updation of records.

Q9 Suggest the data types for the following Teacher Table:

T_Code	- Teacher's Code generated Automatically	Auto Number
T_Name	- Teacher's Name	Text
DOB	- Date of Birth	Date/Time
Basic_Sal	- Basic Salary	Currency
Qualification	-Qualification of a teacher (List should appear like- M.A., B.A,)	Text
Photo	-Photograph of a teacher	OLE
Bio-Data	-Ms-Word file.	OLE
Blog	-Teacher's Blog on Internet	Memo

Q10 Study the following data and answer the questions given below:

Table: Video

Title	Vid_No	ISBN No	Actor	Price
Troy	1001	VS001001	Sunil Nehra	315.00
Men In Black	1002	VS001002	Neha	125.70
Speed	1003	VS001003	Shuhita	220.10
Spider Man	1004	VS001004	Pawan	480.00

Table: Issue

Member_No	Issue_Date	Return_Date	Vid_No
P123	07/12/2009	07/14/2009	1001
T102	09/30/2009	10/01/2009	1002
T096	10/08/2009	10/10/2009	1002
P103	10/03/2009	10/05/2009	1001
T089	09/30/2009	09/04/2009	1004
P037	04/05/2009	04/05/2009	1003

1) Suggest data types for each of the fields in the table Video & issue

Title & Actor

Vid_No

Member_No Auto & ISBN_No

Price

Return_Date & IssueDate

Text

Number/Autnumber

Auto Number or Text

Number or Currency

Date /Time

2) Suggest the primary key for the table Video and the table Issue.

Table Video **Vid_no** table Issue. **Member_No**

3) Name the Foreign Key of table Issue **Vid_no**

4) Name Candidate keys and Alternate Keys of Table Video

Candidate Key

Vid_no /ISBN No/Title

Alternate Key

ISBN No/Title

5) What type of relationship exists between table Video and Issue. **One to Many**

Q11 Differentiate between

1) Text & memo (**given in Q2**) 3) Number & AutoNumber(**given in Q2**) 6) OLE & Hyperlink(**given in Q2**)

7) Date & Currency(**given in Q2**) 8) Tuple & Attribute (**given in Q1**)

9) Primary & Foreign Key(**given in Q1**) 10) Alternate & Candidate Keys(**given in Q1**)

4) Validation Rule & Input Mask(**Given in Q5,6**)

Hiding Access column	Freezing Access column
Hiding column makes the column disappear or hide for viewing	Freezing column means that particular column will not move when use try to scroll the column vertically .
Datasheet View	Design View
User can add delete modify the records	User can create a table structure by defining attribute and its data type
we can add attribute in datasheet view	we cannot add records in design view

Q1. Write a short note on Different File formats:

GIF	Graphics Interchange Format It's an image format Can support 8 bit color Support transparency Animated Image can be created	MPEG	Motion Picture Experts Group It's a Video Format It support 24 bit color
PNG	Portable Network Graphics It's an Image format Can support 16bit color Support Transparency (better than GIF) Animated image not possible	AVI	Audio Video Interleave It's a Video Format AVI file format do not require any particular hardware device of software application for the file to run.
JPEG /JPG	Joint Photographic Experts Group It's an Image format Can Support 24 Bit Color JPGs don't support animation JPG don't support transparency	WMV	Windows Movie Video It's a Video Format
BMP	Bit Map Picture It's an Image format Can Support 24 Bit Color	TIFF	Tagged Image File Format It's an Image format Size of file is big
FLA	Flash Animation Source file It's a Editable so change can be made Cannot run on Web Browser Need Flash software to open the file	SWF	Shockwave Format / Small Web Format It is Not Editable It can run on Web Browser Can open any player
MIDI	Musical Instrument Digital Interchange It's a Sound File	WAV	Waveform Audio File It's a Audio File Format
MP3	MPEG-1 Audio Layer III format It's Audio File format allows streaming over the Internet Only audio files can be compressed and stored Compatible with most music players	MP4	MPEG-4 Part 14 Format It's a Video format, but can also store audio or image allows streaming over the Internet Compatible with few players including iPad and iPhone
PDF	Portable Document Format It's a document format Can open on web browser/pdf reader	PSD	Photoshop document It's a photoshop source file Can open on Photoshop only

Q2. Differentiate between Following

- a) GIF & JPEG/JPG b) JPEG & MPEG c)SWF & FLA d) GIF & PNG e) MP3 & MP4
Given in Q1

Q3. Choose the correct option

2016 Sample Paper 3
Which file format is best used for images placed in documents to be published in paper form?

- a. **JPEG** b. TIFF c. BMP d. PNG
- b. Which is *not* a format for saving an image created in a paint program?
a. JPEG b. PNG c. **PDS** d. BMP
- c. Which of the following is *not* a sound file format?
a. WAV b. **MPEG** c. MP3 d. WMA
- d. Which of the following images can be edited and resized without edge distortion?
a. bitmapped graphic b. AVI file c. raster graphic d. **vector graphic**
- e) Master Adarsh is planning to gift a digital album of 'MODEL SAARC CONFERENCE 2015' to his teacher on her farewell. All the images have lots of colour shading and are all static images. Which of the following formats are best suited for this purpose:
(i) GIF (ii) **JPEG** (iii) AVI justify your choice
- f) Mehmwal Ad Agency is developing an **advertisement** for one of its clients. The client has specified that the movie should be viewable on **DVD players** as well as on the **internet**. Also they want that the viewers should **not** have to download any **special codec** to view the file. Keeping these requirements in mind, suggest the most suitable format from the following:
a) **AVI** b) MPEG c) JPEG **Justify** your choice
- g) Which image file format suitable for storing animations with transparent backgrounds a) **GIF** b) JPEG c) BMP **Justify** your choice
- h) Name two movie formats used for webpage 1) **AVI** 2) **MP-4**
- i) Mr. S. Expert is suggesting to Mr. KRK to store all static images in JPEG format that has lots of colour shading but Mr. KRK has different thought and he want to store it in GIF format. With whom do you agree and why?

I agree with Mr S. because Gif can support limited Color only whereas JPEG support 24 bit colors

Flash

Q1. What is Layer? Define 4 Types of Layer?

Layer helps us to organize the artwork in your document. When we create a flash document it contain one layer but we can add more. Objects are placed in layer to create animation.

1. **Normal Layer** by default all layer added on time line are normal layers, which means all objects on layer will appear on movie,
2. **Motion Guide Layer** a motion guide layer contains an animation path that links to an object on another layer. It is always added above the layer which is linked it is not visible when we run the movie
3. **Mask Layer** A mask is used to hide any layer linked to it. Only certain portions of the underlying layer appear through mask design. While other parts of leyr are hidden or masked.
4. **Sound Layer:** Layer is used to add sound in flash animation

Q2. What is Symbol? Define 3 Types of Symbol?

Symbol is reusable graphics object store in Library. Three types of Symbol are

Graphic Symbol are used for static image and to create reusable piece of animation that are tied up with main timeline.

Button Symbols are used to create interactive buttons that respond to mouse clicks, rollover or other action

Movie Clip Symbol these symbols have their own timeline of animation these are used to create reusable piece of animation. This animation is independent of main movie's Timeline.

Q3. What is Instance? How it is different from Symbol

Instance: It is a copy of master Symbol but any change we make in instance will not be updated or reflected in symbol in the library.

Q4. What is a Frame? What are Frame Buffer and Frame Rate?

It is a segment of a movie that is mainly used for creating and storing the objects. It is one of the important components of Timeline in Flash.

Q5. What is a Key frame? What is the use of Stage?

It is a frame in flash that allows the users to define a change for an animation or to include the frame actions to modify a movie.

Stage is the actual canvas in flash where all the objects to be included in a movie or animation are placed. It allows to the draw the graphics and preview the movie in design time. It is denoted by a solid dot in the frame

Q6. How Key frame is differ from Blank frame?

Blank Frame is frame which display empty stage. Nothing is visible on stage. It is denoted by a white hollow circle in the frame

Q7. What is Timeline? Name three components present in Timeline?

The Timeline is used to organize and control the contents of a movie over time in the layers and frames so that each movie instance can occur at the correct time.

The major components of the Timeline:


- 1. Layers 2. Frames 3. Play-head.**

Q8. Differentiate between

Shape Tween	Motion Tween
Shape tweening refers to making one shape appear to change into another shape over time.	Motion tweening refers to changing the position of an object over time.
By tweening shapes, you can create an effect similar to morphing.	Motion tweening is helpful in creating an animation effect.
Shape tweening works with any object.	Motion tweening works only with symbols
Shape tweening refer with solid arrow on green color	Shape tweening refer with solid arrow on purple color
Guide Layer	Mask Layer
Guide layer is used to assign an animation path that links to an object on another layer during motion tweening, we can use the drawing tools in the toolbox to draw the guide path.	Mask layer is used to create a hole through which the contents of one or more underlying layers are visible
It can be done with motion tween only	Mask Layer can be used with Motion or Shape Tween

Publishing	Exporting
<p>20 Publishing a Flash Movie means delivering a completed movie to an audience by converting the Flash .FLA file to another format for playback.</p> <p>2. setting can be saved for reuse</p> <p>File formats in which a Flash movie can be published are: .SWF, .HTML, .GIF, .JPEG, .PNG, .EXE, .HQX, .MOV, .SMIL.</p>	<p>Exporting a flash movie means saving it into different formats so that it can be played to particular movie player like quick movie</p> <p>2. setting cannot be saved</p> <p>File formats in which a Flash movie can be exported are: .SWF, GIF, .JPEG, .PNG, AVI, WMV</p>
Vector Graphics	Bitmap Graphics
Made up of tiny dots called pixel	Made up of line and shapes
Individual elements cannot be grouped	Cannot be grouped
Take more storage space	Take less storage space
.Jpeg, .bmp files are the examples	.svg, .eps, .swf files
.Fla	Swf
.FLA is the extension of the flash source file.	.SWF is the extension of the flash publish file.
.FLA file can be opened and edited at any point of time	.SW F file cannot be edited, it can only be viewed.
Hiding Layer	Locking Layer
the contents of layer are not visible	the contents of layer cannot be edited
Denoted by cross on eye symbol	Denoted by cross on Lock symbol
Movie Clip	Graphics Symbol
are used for static and Animated object and to create reusable piece of animation that are tied up with main timeline.	are used for static image and to create reusable piece of animation that are tied up with main timeline.
Movie Clip has its own time line & animation which may not synchronized with main animation	Graphic Symbol has no time lime of its own it is totally synchronized with main animation
Character Kerning	Character Tracking
Uneven spacing between characters of text in flash is called character kerning	Even spacing between characters of text in flash is called character tracking

Q9. Explain the following

Onion Skinning	The onion-skinning feature allows the designer to see multiple frames and how their movements relate to the current frame. When creating an animation, this feature can be a great help to see what the objects in the preceding and succeeding frames look like.
Alpha Value	Alpha Values set the transparency level of color At 100% color is solid or opaque at 0% it is Transparent
Publish Preview	The Publish Preview option allows one to preview the movie in a browser before publishing to see if the movie is appearing fine.
Scenes	Scenes allow you to break up a single timeline into manageable sections. Each section has its own timeline. A single movie can consist of any number of scenes, played in the order we place them.
Stroke	Outer borderline of object /shape is called stroke. Or When we draw something with a pencil tool  or another drawing tool like the pen or the line tool, then the lines we draw are called strokes . default stroke is solid line

Q10. How to Add sound in Flash timeline

Choose *File > Import > Import to Library* from the menu. Open file dialogue box appear Find and select sound file and click Open. The file now appears in the Library. Drag the required file from Library and place it on frame form where you want sound to start

Q11. Explain the concept of Scenes in Flash

Given in Q9

Q12 Give 4 Formats of Publishing & Exporting of Flash document

(Given in Q8 part 3)

Q13. Define Windows Projector & Macintosh Projector

Windows Projector (.exe): This is a stand-alone Flash movie for Windows. If you save your Flash movie in this format, it will play on Windows systems even without the Flash Player or Shockwave plug-in because it's embedded in the file.

Macintosh Projector (.hqx): This is a stand-alone Flash movie for Macintosh. . If you save your Flash movie in this format, it will play on Mac systems even without the Flash Player or Shockwave plug-in because it's embedded in the file.

Q14. Explain two types of sounds.

Event sounds must download completely before they start playing and they will continue playing until explicitly stopped (usually by a stop action). Event sounds are associated with an event such as a mouse click, and are independent of the Timeline.

Stream Sound Stream sounds begin playing as soon as there's enough data to play. These sounds are synchronized to the timeline. Flash forces the animation to keep in sync with the sound. If it can't draw frames fast enough, Flash will drop frames to keep the sound in sync.

Q15. How frame by frame animation differ from

frame animation	tween animation
Frame-by-frame animation means displaying a series of images, one image after another. That creates the illusion of a movie. Real movies actually work that way too.	The concept of tweening is that you decide the first and last frames and Flash fills in the middle. Only one object can move in a motion tween on one layer. We tend to have a layer for each object to allow several objects to move at the same time.
Big File Size	Small File Size
Change of Animation at Every Frame possible	Change take place only at key frame

Q16. . Define stroke. What is default stroke style?

Given in Q9

Q17. Write steps to include flash file into a HTML file?

use the <object> element to embed a Flash file:

`<object width="400" height="400" data="helloworld.swf"></object>`

Or

`<embed src="flashmovie.swf" width="300" height="300">`

`</embed>`

Q18. Write Steps to do Motion Tweening in Flash on Text

- a. Using the Text tool Write a Text, say a MMWT with the help of tool on layer1 at frame 1st and press ctrl+G.
- b. Press f8 and convert object to graphic symbol
- c. click on frame 50. right click and choose insert key frame.
- d. drag the text from frame 1st to frame 50.
- e. right click anywhere in between and choose create motion tween

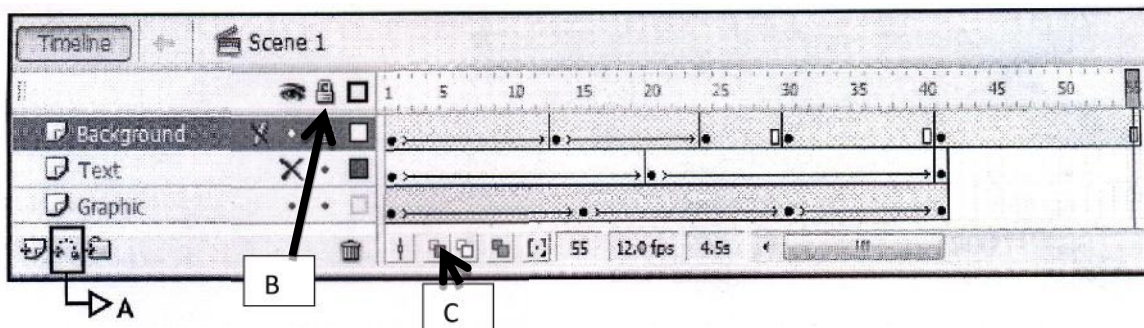
Q19. Write Steps to do Guided Path Motion

- f. Draw an object, say a golf ball with the help of tool on layer1 at frame 1st and press ctrl+G.
- g. Press f8 and convert object to graphic symbol
- h. click on frame 50. right click and choose insert key frame.
- i. drag the image from frame 1st to frame 50.
- j. right click anywhere in between and choose create motion tween.
- k. Select insert – motion guide
- l. Flash creates a new layer above the selected layer; named as guide layer.
- m. On the guide layer, place the playhead at the 1st frame
- n. Then using pencil tool, draw the motion path as shown with dotted line in the question.
- o. Select control – play

Q20. Write Steps to do Masking.

- i. draw an object,say a text “learn flash” with the help of text tool on layer1 at frame1 press ctrl+g.
- ii. press F6 and increase it to the frame 50.
- iii.click on insert and select “ mask layer”, a layer will be created above the layer 1.
select the frame 1 of mask layer...
- iv. draw a solid circle on the layer 1 and press F6 till 50th frame, move the circle on the text to the new position.
- v. right click in mask layer and select create motion tween .
- vi. look the layer and click on contr+Enter test movie.

Q21. Study the figure given below and answer the questions that follow :



- (i) A is Create Guide Path Motion tool (ii) Arrow represent tween on timeline (iii) text layer
iv 12 fps v) B is used to lock the layer vi) onion skinning

Q22. Remove the lock by clicking on it in layer to change the mode to editing For layer

OPEN SOURCE & MULTIMEDIA APPLICATION**Q1. Give Full Form of following**

OSS	Open Source Software
FLOSS	Free Libre Open Source Software
FOSS	Free and Open Source Software
OSI	Open Source Initiative
W3C	World Wide Web constodium
GNU	Generic not Unix
FSF	Free Software Foundation
TTF	True Font

Q2. Define Freeware Software? Give 3 Characteristics of it ? 3 Example of Freeware Software?

Freeware (free software) is computer software that is available for use at no cost or for an optional fee. Software classified as freeware has following characteristics

fully functional for an unlimited time

No cost, monetary or otherwise. Freeware can be proprietary software available at no price.

Free to redistribute

Q3. Define Shareware Software? Give 3 Characteristics of it ? 3 Example of Shareware Software?

term shareware refers to proprietary software that is provided to users without payment on a trial basis and is often limited by any combination of functionality, availability or convenience.

Q4. Define Proprietary Software? Give 3 Characteristics of it ? 3 Example of Proprietary Software?

The term "proprietary software" are copyright software by owner who can exercise control over what users can do with the software, in contrast to public domain. It is neither free nor open source.

Q5. Define Open Source Software? Give 3 Characteristics of it ? 3 Example of Open Source Software?

Open source software is software whose source code is available for modification or enhancement by anyone.

Q6. Define UNICODE & ASCII ?

ASCII	American Standard Code of Information Interchange
ISCII	Indian Standard Code of Information Interchange
UNICODE	Industry standard to provide the means by which text of all forms and languages can be encoded for use by computers

Q7. Explain following i) Tomcat ii) MYSQL iii) OpenOffice iv) PHP v) Linux vi) PHP

Tomcat	It is an open Source web server Software. Tomcat is an application server from the Apache Software Foundation that executes Java servlets and renders Web pages that include Java Server Page coding
MYSQL	MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

Linux	Linux is an <i>operating system</i> , software that manages a computer. It is similar to Microsoft Windows, but it is entirely free . The accurate name is <i>GNU/Linux</i> but "Linux" is used more often.
Open Office	Open Office is Open source Application software suit which is available free of cost . It is an alternative to Microsoft office
Python	Python is an interpreted, object-oriented, high-level programming language with dynamic semantics

Q8. Name 2 Website which promote Open Source Software

www.opensource.org:

www.**source**forge.net

www.osalt.com

www.fsf.org The Free Software Foundation (FSF) is a nonprofit with a worldwide mission to promote computer user freedom and to defend the rights of all free software users.

Q9. Which of the following software is Open Source : Linux, Windows 7, PhotoShop, MySQL.

Linux & MySQL

Q10. Seema is using software, which has been downloaded from internet and is available for one month?

She is using Shareware

a) Q12. Give 2 Examples of each Open Source & Proprietary Database

	Open Source	Proprietary
Database	MySQL, PostgreSQL	Oracle, Sybase, Ms Access, MsSQL
Office Suit	Open Office, LibreOffice	Microsoft Office, Wordperfect Office iWorks (for Mac)
Operating System	Linux, Unix,	Windows-7, Mac OS iOS
Browser	Firefox, Chrome	Internet Explorer, Safari
Web Server	Apache HTTP Server, Apache Tomcat, NGNIX	Windows <u>Server</u> 2008, IIS, PWS
Programming Language	Perl, Python, Ruby, JavaScript, JSP	Visual Basic, VBScript, ASP, Jscript, VB.Net

Q13. Define Localization & Internationalization

Localization is the process of adapting internationalized software for a *specific* region or language by adding locale-specific components and translating text. .

Internationalization is the process of designing a software application so that it can *potentially* be adapted to various languages and regions without engineering changes.

Q14. Name three Website which promotes open source software

www.opensource.org:

www.**source**forge.net

www.osalt.com

www.fsf.org The Free Software Foundation (FSF) is a nonprofit with a worldwide mission to promote computer user freedom and to defend the rights of all free software users.

www.gnu.org

Q15. Explain the following technology with two uses of each

Video Conferencing: Video Conferencing is live interaction of people sitting far from each other using Computer System/ Webcam /Speaker /Headphone and conferencing software using network(internet /Intranet)	
Use 1.	It is used for Distance learning for teaching
Use 2.	It is in offices for online interviewing/Meetings
Virtual Reality: Computer Generated Environment which stimulate the real world situation with the use of Multimedia.	
Use 1	It is used in Video Gaming & Entertainment Industry
Use 2	Flight Simulation
Video of Demand: Video on Demand is a Interactive process to select video to watch over network on demand by paying.	
Uses .	Online Tutorial Video available for Learning
Information Kiosk: Information Kiosk is a Interactive Screen which provide information. An interactive kiosk is a computer terminal featuring specialized hardware and software designed within a public exhibit that provides access to information and applications for communication, commerce, entertainment, and education.	
Use 1.	ATMs and Financial Services
Use 2.	Restaurants and Service Vendors display products
Digital Library: Digital Library is a collection of Electronically /Digitized text /audio and video material available for use in the form of CD/DVD/Online on internet.	
Use 1	In research resource, computing, and communication networks.
Use 2	Strengthen communication and collaboration between and among educational institutions.

Q16 Give Two Uses of Multimedia in following Area

Education	<ol style="list-style-type: none"> Multimedia is used to create interactive learning resources for efficient teaching learning process Used in Online Distancing learning to provide education at users home.
Entertainment	<ol style="list-style-type: none"> Multimedia is used to create special effects in movies Multimedia is used to create interactive video games
Office	<ol style="list-style-type: none"> For Creating presentation for clients to give information For Online Interview /Meeting through Video conferencing
Publishing	<ol style="list-style-type: none"> For produce illustrated, multimedia ebooks/CD/DVD Creating Catalog of Web and Mobile
Advertisement	<ol style="list-style-type: none"> For Creating Print & Media campaign for Product/Services For journalism, there are many magazines and newspaper that are published periodically

NETWORKING

Q1. What is network ?

Q2. Write advantages of networking.

Q3. What are the various types of networking ? write examples of each type.

LAN - Local Area Network	Example	Office Network /Computer Lab Network
MAN - Metropolitan Area Network	Example	Cable TV /
WAN -Wide Area Network	Example	Airline/Railway Reservation Network
WLAN -Wireless Local Area T	Example	Home Network using wifi
PAN - Personal Area Network	Example	Wifi/Bluetooth connection within room

Q4. What do you mean by topology ? Write name of various topologies.

Bus Topology

Ring Topology

Star Topology

Q5. Which topology is better – Bus topology or Star topology?

Star Topology is better if we have more no of computers.

Q6. Beauty Lines Fashion Inc. is a fashion company with design unit and market unit 135 meters away from each other. The company recently connected their LANs using Ethernet cable to share the stock related information. But, after joining their LANs, they are not able to share the information due to loss of signal in between. Which device out of the following should you suggest to be installed for a smooth communication? i) UPS ii) Modem iii) Repeater

Ans Repeater is used to strengthen the signals

Q7. The doctors in the same room have connected their Palm Tops using Bluetooth for exchanging views about a patient. Out of the following what kind of network they have formed? LAN, MAN, PAN, WAN

Ans PAN

Q8. The art and science of sensing when a system or network is being used inappropriately or without authorization is known as

- i) Authorization ii) Firewall iii) Intrusion detection iv) Authentication

Ans intrusion detection

Q9. When we work on computer, a modem changes the digital data from our computer into analog data. This technique is known as i) Modulation ii) Demodulation **Ans Modulation**

Q10. Name the protocols used for sending & receiving mails. **Ans SMTP**

Q11. Vijay is confused as he is unable to find the name of a network of computers and other devices that is confined to a relatively small space-an office. Help him to do that. **Ans LAN**

Q12. Identify the type of topology from the following:

(i) If each node is connected with the help of independent cable with the help of a independent cable with the help of a central switching (communication controller) **Ans. Star Topology**

(ii) If each node is connected with the help of a single co-axial cable. **Ans Bus Topology**

Q13. Mr. Taufiq Ahmed wants to prevent unauthorized access to/from his company's local area network. Write the name of a system (software/hardware), which he should install to do the same.

Ans Firewall

Q14. Jai Khanna is confused between the terms Domain Name and URL. Explain the difference with the help of appropriate examples of each.

Ans EXAMPLE www.yahoo.com .com is domain name and www.yahoo.com is URL

Q15. Define RJ45 Connector.

Short for Registered Jack-45, an eight-wire connector used commonly to connect computers onto a local-area networks (LAN)

Q16. Monica is interested in transferring few Songs from her mobile phone to Sangeeta's mobile phone. Suggest two suitable wireless options she may opt for to do the same.

Ans. Bluetooth , Infrared, Wi-fi

Q17. ABC Co is planning to connect their two different networks using different protocol and having different size in terms of computer. Which device will you suggest them to installed for connection.

Ans. Gateway

Q18. Identify the type of Topology from the following:

- (i) if one node fails to pass data through itself, the entire networks fails and no traffic can flow. **Ring Topology**
- (ii) nodes are connected together in an arbitrary fashion. A link may or may not connect two or more nodes. **Star Topology**

Q19. What is Firewall? Why do we use it

A system designed to prevent unauthorized access to or from a private network. Firewalls can be implemented in both hardware and software, or a combination of both. Firewalls are frequently used to prevent unauthorized Internet users from accessing private networks or computers connected to the Internet.

Q20. Difference between Router & Modem

Router	Modem
A router is used to connect two or more networks	modem is used to connect to a phone line
router only connects to RJ45 connectors	modems need an RJ45 and an RJ11 for the phone line
A router provides security measures to protect your network	modem does not have any security measures
router is not essential to connect to the internet it only helps in sharing	modem is essential to connect to the internet

Q21. Explain VOIP/ SMTP / IMAP

SMTP: Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks.

IMAP: The Internet Message Access Protocol (commonly known as IMAP, and previously called Internet Mail Access Protocol) is an Application Layer Internet protocol that allows an e-mail client to access e-mail on a remote mail server.

VoIP: Voice over Internet Protocol (Voice over IP, VoIP) is a general term for a family of communication protocols and transmission technologies for delivery of voice communications and multimedia sessions over Internet Protocol (IP) networks, such as the Internet.

Q22. Write any two preventive measures for network security.

Ans. Firewall & Authorization using Username & password

Q23 Compare Optical Fiber and Coaxial transmission media.

	Twisted Pair	Coaxial	Optical Fiber
Usable cable length	90 Meters	Upto 500 Meters	2KM
Transmission rates	4-100 Mbps	4-100 Mbps	>100 Mbps >1gb
Flexibility	Most Flexible	Less than Twisted pair	Least Flexible
Ease of installation	Very Easy to install	Moderately Easy	difficult
Susceptibility to interference	Very susceptible	Good resistance to interference	Not susceptible to interference
cost	Cheapest	More than Twisted pair but very less than optical	Expensive

24. Define interspace.

Interspaces It is an applications environment for interconnecting spaces to manipulate information, much as the Internet is a protocol environment for interconnecting networks to transmit data

25. What is the difference between Message switching technique and Packet switching technique.

Circuit switching : This provides end-to-end connection between two computers. First, physical connection between two computers is established and then data (message) is transmitted from the source computer to the destination computer.

Message switching :The source computer sends data (message) to the switching office, which stores data in a buffer. It then looks for a free link to another switching office and sends data to that office. This process continues until data is delivered to the destination computer.

Packet switching: A fixed size of packet that can be transmitted across the network is specified. All the packets are stored in the main memory instead of disk. As a result accessing time of packets is reduced.

26. Give two applications of Cyber law.

Any kind of crime committed using Internet, World Wide Web, Cyberspace, Computer and devices connected to a network will be classified as Cybercrime and to tackle Cybercrime we need Cyber law. Cyber law is a term that encapsulates the legal issues related to use of communicative, transactional, and distributive aspects of networked information devices and technologies

Uses of Cyber law

- (ii) Protect Copyright on Cyber Space
- (iii) Helps in preventing electronic fraud by legal way

27. Write one difference between Telnet and FTP.

FTP (File Transfer Protocol) :It is a primary method to transfer files over the Internet. FTP transfers files to and from a remote server

Telnet: A text-based Internet program used for connecting to a remote 2 host or server.

28. What is the purpose of using a web browser? Name two web browsers.

Web Browser is software Which is used to display web pages on internet. Two Web Browser are Internet Explorer & Chrome

29. Define the term bandwidth. Give unit of bandwidth.

Bandwidth is often used as a synonym for data transfer rate - the amount of data that can be carried from one point to another in a given time period (usually a second). This kind of bandwidth is usually expressed in bits – bps, kbps, mbps and gbps

30. Explain the terms Bridge and Gateway.

Bridging is a forwarding technique used in packet-switched computer networks. Bridge is device generally used to connect two or more similar network.

Gateway is a network point that acts as an entrance to another network It is used to connect heterogeneous networks that use different protocols and have different network

31. When should switch be preferred over Hub.

Switch does not broadcast the packet to all computers as a hub does which means bandwidth is not shared and makes the network much more efficient. For this reason alone, switches are usually preferred over a hub.

32. Define protocol.

In information technology, a **protocol** is the special set of rules that end points in a telecommunication connection use when they communicate. **Protocols** specify interactions between the communicating entities.

33. Define following protocols

TCP/IP: Transmission Control Protocol/Internet Protocol. A group of protocols that specify how computers communicate over the Internet **TCP and IP.**

- **TCP:** Abbreviation of Transmission Control Protocol enables two hosts to establish a connection and exchange streams of data. TCP guarantees delivery of data and also guarantees that packets will be delivered in the same order in which they were sent.
- **IP:** Short for Internet Protocol. IP specifies the format of packets and the addressing scheme. IP does the routing of data packets.

HTTP : The Hypertext Transfer Protocol (HTTP) is a networking protocol for distributed, collaborative, hypermedia information systems. HTTP functions as a request-response protocol in the client-server computing model.

FTP (File Transfer Protocol) :It is a primary method to transfer files over the Internet. FTP transfers files to and from a remote server.

PPP (Point-to-Point Protocol) :In networking, the Point-to-Point Protocol, or PPP, is a data link protocol commonly used in establishing a direct connection between two networking nodes

34. Differentiate between LAN and WAN.

LAN / MAN	WAN
Area covered is restricted (radius of 5/6 KM)	Area covered has no limitation
Very faster – speed in Gbps	Relatively low – speed in Mbps
Owned by a single organization	Owned by multiple organization
Very low error rates	Comparatively higher error rates

35. A company wants to form a network of their five computers to a server within the company premises. Represent STAR ,BUS and RING topologies diagrammatically for this network.

36. What is a hub?

Ans. A network hub is designed to connect computers to each other

37. What are the various media used for data transmission in a network system?

Transmission Medium Wired	Transmission Medium Wireless
Twisted Pair Cable	Satellite
Coaxial Cable	Radio Wave/ Microwave
Fiber Optics	Wi-fi / Infrared

38. Give the advantages of Email and world wide web services provided by Internet.

Email provide fast and Free communication between ppl. Same message can be sent to many ppl faster. WWW provide free and faster medium to gather information and communicaton

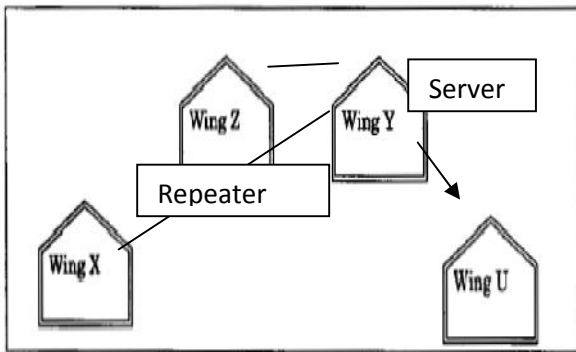
39. Differentiate between GSM and CDMA.

	GSM	CDMA
Full Form	Global System for Mobile	Code Division Multiple Access.
Type of Storage Used	SIM Card	Internal Memory
Network Service	Dictated by the user's SIM card.	Dictated by the user's device.
International Roaming	Easier access	More difficult access
Frequency Band	Multiple (850,900,1800,1900 MHz)	Single (850 MHz)
Data Transfer	GPRS/E/3G/4G/LTE	EVDO/3G/4G/LTE

40. Write a short note on WLL.

WLL (Wireless Local Loop) :Sometimes called as Radio In The Loop (RITL) or Fixed-Radio Access (FRA), WLL is a system that connects subscribers to the Public Switched Telephone Network (PSTN) using radio signals as a substitute for cable for all or part of the connection between the subscriber and the switch. This includes cordless access systems; proprietary fixed radio access, and fixed cellular systems.

48. The Great Brain Organization has set up its new Branch at Srinagar for its office and web based activities. It has 4 Wings of buildings as shown in the diagram :



Center to center distances between various blocks

Wing X to Wing Z	50m
Wing Z to Wing Y	70m
Wing Y to Wing X	125m
Wing Y to Wing U	80m
Wing X to Wing U	175m
Wing Z to Wing U	90m

Number of Computers

Wing X	50	Wing Z	30
Wing Y	150	Wing U	15

(i) Suggest a most suitable cable layout of connections between the Wings, and topology.

Star Topology

(ii) Suggest the most suitable place (i.e. Wing) to house the server of this organisation with a suitable reason, with justification. **Wing Y as it has maximum no of computers**

(iii) Suggest the placement of the following devices with justification:

(1) Repeater **between wing Y & X as distance between them is more than 90 meters as per star topology** (2) Hub/Switch **At every Block**

(iv) The organization is planning to link its head office situated in Delhi with the offices at Srinagar. Suggest an economic way to connect it; the company is ready to compromise on the speed of connectivity. Justify your answer. **Dial Up**

HTML

Q1. Write the HTML code to generate a Web Page in the format given below :

Consider the following while writing the HTML code

1. Title of the page should be "Save Girl Child"

```
<head>.<title> Save Girl Child</title></head>
```

2. Link colour should be "Maroon", visited link colour should be "Red" .

```
<body vlink="Red" Link="Maroon">
```

3. Heading of page is "violet"

```
<h1> Save girl Child,educate girl child</h1>
```

4. Picture used in the page is the file "savegirl.jpg"

```

```

5. Table should have a border of width 1, border of table should be "green".

```
<table border=1 bordercolor="green">
```

6. Background of first row is "yellow" and of second row is "cyan"

```
1 row <td bgcolor="yellow">
2 row <td bgcolor= "cyan">
```

7. Pages linked to :

At the National level as "national.html" At the National level

At the State level as "state.html" At the State level

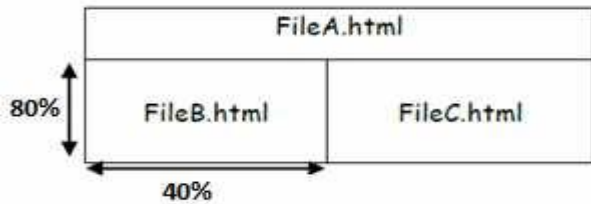
At the District level as "district.html" At the District level

7. Bottom message is of size 2 is linked to email-id savegirl@abc.com

```
<font size=2> <a href="mailto: savegirl@abc.com"> for further Enquires </A>
```

Note :This question should be done in totality I just given the code for instruction but complete code to be written

Q2. Fill in the blanks in the HTML code to create a framed web page in the following format:



```
<Frameset rows= "20%,80%"
<Frame Src= "FileA.html">
<Frameset rows= "40%,60%"
<frame src= "FileB.html">
<frame src= "FileC.html">
</Frameset>
</Frameset>
```

Q3. Difference Basefont and font tag

It is a non-container tag used to specify the font and its features for the entire webpage.

The Tag is a container tag and is used for formatting of a specified word or sentence. It can be used any no of times for any text in Webpage

What are the purpose of <h1> ...</h1> ,.....,<h6>...</h6>?

They are used to specify headings of pre-determined sizes.

<h1>...</h1> is the largest and <h6>...</h6> is the smallest.

**How
 tag is different from <P> tag?**

 	<P>
It is a non-container tag.	It is a container tag.
It creates a line break for every time it is repeated.	It doesn't creates a line break for every time it is repeated.
It creates one line break.	It creates a link break before and after the

**How
 tag is different from <HR> tag?**

 	<HR>
It creates a line break.	It creates a line.
It does not have attribute	It has Attribute like color, size, width

What is the purpose of Type attribute used in List?

It helps in the formatting of the list item marker.

For e.g. :

```
<ol type="I">
```

```
.....
```

```
</ol>
```

The above would result in a list where the item markers are Roman Numerals.

What is the purpose of Start attribute with the List?

It helps in deciding the starting position of the list which can only be used in Ordered lists.

For e.g.:

```
<ol start="5" type="a">
```

```
.....
```

```
</ol>
```

This would result in a list where the first list marker is 'e.'

Which HTML tag is used to insert image in HTML?

The tag used is the tag.

Which attribute is used to show text instead of Image if browser do not support image?

The attribute used is display text instead of image if browser does not support image

```
<imgsrc="R.jpg" alt="Imagname">
```

This would result in a blank box with 'Imagename' written inside it if the image doesn't load.

How can we create a link to image?

By using the following code:

```
<a href="a"><imgsrc="b"></a>
```

Where a is the URL and b is the image location.

What is Hyperlink?

Hyperlink refers to a link connecting any 2 pages or parts of the internet.

What is URL?

Uniform Resource Locator refers to the location of any file on the internet.

Difference between Relative URL & Absolute URL?

Relative	Absolute
It refers to a URL for connecting 2 parts or pages of the same website or webpage.	It refers to a URL for connecting 2 different websites or webpages.

What is the use of <CAPTION> tag?

It is the tag used to give a caption for a table.

What do you understand by COLSPAN & ROWSPAN?

They are both attributes used in the <TD>&<TH> tag.

COLSPAN: Specifies the no. of columns that the table data covers

ROWSPAN: Specifies the no. of rows that the table data covers

What is Cell padding and Cell spacing?

They are both attributes used in the <TABLE> tag.

Cellpadding: It is used to decide the space between the table data and the walls of the cell.

Cellspacing: It is used to decide the space between neighbouring cells and the space between the cell and the table borders.

Differentiate between <input type="Text"> & <textarea>.

<input type="text">	<textarea>
Used for information of usually one line	Used for information of usually more than one line
It is a non-container tag.	It is a container tag.
Eg. <html> <body> <form name="f1"> Name: <input type="text" name="t1" value=""> </form> </body> </html>	Eg. <html> <body> <form name="f1"> Describe yourself: <textarea name="txt1" cols="5" rows="10" value=""></textarea> </form> </body> </html>

How is External linking is different from Internal linking?

External	Internal
Linking done between 2 different websites.	Linking done between 2 different webpages of the same site or between 2 different parts.
Eg. <html> <body> Wikipedia </body> </html>	Eg. <html> <body> Wikipedia </body> </html>

Explain with an example how interlinking is done.

Eg.
<html>
<body>

Wikipedia

What are the two Attributes used for Bookmarking (Intralinking)

```
<html>  
<body>  
<a name="top">  
Wikipedia  
</a>  
<br>.....<br>  
<a href="#top">Go to Top</a>  
</body>  
</html>
```

Therefore the 2 attributes used in the <A> are **name** and **href**.

How to align Image to Center/Right/Left?

```
<html>  
<body>  
<imgsrc="R.jpg" align="position">  
</body>  
</html>
```

Where position refers to center or right or left.

What is radio button how is it different from checkbox?

Radio	Checkbox
It used in the case of selection of one option out of possible many.	It used in the case of selection of one or more options out of possible many.
Eg. <html> <body> <form name="f1"> Choose sport: Football <input type="radio" name="r1" value=""> Basketball <input type="radio" name="r1" value=""> </form> </body> </html>	Eg. <html> <body> <form name="f1"> Choose favourite sport/sports: Football <input type="checkbox" name="r1" value=""> Basketball <input type="checkbox" name="r1" value=""> </form> </body> </html>

Name the tag which is used to set checkbox as selected by default.

It is checked.

```

<html>
<body>
<form name="f1">
Choose favourite sport/sports:
Football
<input type="checkbox" name="r1" checked>
Basketball
<input type="checkbox" name="r1">
</form>
</body>
</html>
    
```

What is the use of Action attribute in form?

The action attribute decides where the form data goes.

Differentiate between Text & password interface elements of form.

Text	Password
It is a textbox which allows viewing of the entered data.	It is a textbox which allows viewing of the entered data in the form of a common character such as *
<pre> <form name="f1"> Name: <input type="text" name="t1" value=""> </form> </pre>	<pre> <form name="f1"> Password: <input type="password" name="p1" value=""> </form> </pre>

What is the use of Maxlength attributes with <input> tag?

The maxlength attribute decides the maximum number of characters that can entered.

What is the difference between Submit & Reset Button?

Submit	Reset
It submits the form data to give a pre-specified location.	It resets the form allowing for the re-entering of data.
<pre> Eg. <html> <body> <form name="f1"> <input type="submit" name="b1" value="Submit"> </form> </body> </html> </pre>	<pre> Eg. <html> <body> <form name="f1"> <input type="reset" name="b2" value="Cancel"> </form> </body> </html> </pre>

Write the name of tag and attribute used to have 3 pixels thick horizontal line centralized across 50%

```
<Hr Align= Center Width =50% Size=3px>
```

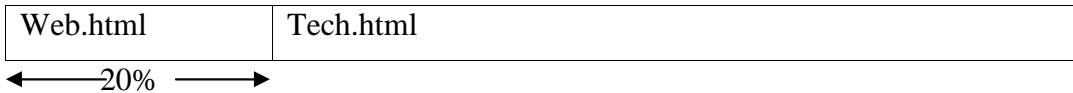
Insert an email link to image (MapleLeaf.jpg) with the width and height both set to 400 px

Specify the tag and attributes to Send a form to the email address mymail@emailaccount.com.

<imgsrc= "MapleLeaf.jpg" width =400 height=400>

Write the HTML code to generate a Web Page in the format given below :

- i) Write a HTML code to create a framed webpage in the following
 - The Page is divided into two frame vertically
 - The left frame is 20% of the page width and display file " Web.html"
 - The right frame is 80% of the page width and displays file "tech.html"



explain the importance of NOFRAME tag .

```
<HTML>
<Frameset cols= "20%,80%"
<Frame Src= "Web.html">
<frame src= "tech.html">
</Frameset>
</Html>
```

Name the TAG and ATTRIBUTE to be used in the following situation

- i) To give the color of the border of a frame
<frame src="headercolor.htm" bordercolor="blue">
- ii) To display the cell content at the bottom of the cell of a table
<td valign="bottom">
- iii) To sets the top/bottom margin of the web page.
<body topmargin=2 bottommargin=0>
- iv) Text colour of main heading on the page should be "Red".
<h1 color ="red"> Heading </h1>
- v) Background colour of the page should be "black", textcolor should be "white" and link colour should be "Green".
<body bgcolor="black" text="white" link= "green">
- vi) Font face of text in the page should be "Arial".

- vii) Image used in the page is the file "earth.jpg" of size 200 x 200 right aligned on page.
<imgsrc="earth.jpg" height=200 width=200 align = "right">
- viii) The table should have a border of 3 pixels and the background color "Yellow"
<table border=3 bgcolor="yellow">
- ix) First row of table should be "Aqua" in color
<tr bgcolor = "aqua">
- x) The bottom message should be of size 2 and the text "mailto:" is an E- mail link to the e-mail address saveEarth@who.info.
<A href=<mailto:saveEarth@who.info>>E-Mail
- xi) Image used at the bottom is notice1.jpg and it acts as a link to notice.html
<imgsrc=notice1.jpg">

xii) To create a textbox which can accept maximum of 20 characters with a default value "Enter Name"

```
<input type="Text" Maxlength=20,value="Enter Name">
```

xiii) Specify the tag and attributes to create a TextArea with 5 rows and 20 columns.

```
<TextArea rows=5 cols=20></TextArea>
```

Differentiate between FOR----NEXT and FOR EACH----NEXT

For Each loop is used to iterate through arrays or collections. *For* loop is used to run statements a fixed number of times.

What is the purpose of select tag . or how to create list box/drop down list

Select Tag is used to create drop down list

```
<select name="cars">
<option value="volvo">Volvo</option>
<option value="saab">Saab</option>
<option value="opel">Opel</option>
<option value="audi">Audi</option>
</select>
```

Name the tag and attribute used to set a target frame in HTML.

Base Target Tag is used inside the head tag to set the target frame in HTML

It will make the html page to open in selected frame only.

```
<head>
<base target="frame_name">
</head>
```

What is the use of the ALT attribute of an tag?

Specifies an alternate text for an image , it will be displayed if browser does not support image <<
<imgsrc="Image1.jpg" ALT= " Image 1 is here">

What is the use of <EMBED> tag? Write any three attributes of <EMBED> tag.

The <embed> tag defines a container for an external application or interactive content (a plug-in).

We can use this tag to add sound movies or flash file

Attribute are src height width & type

Write a HTML code line to print the following chemical formulae $\text{Na}_2\text{SO}_4^{-2}$

```
Na<sub>2</sub>SO<sub>4</sub><sup>-2</sup>
```

What is the use of # sign in intra file linking in HTML?

is used to provide reference to Anchor Name in Bookmark

```
<A Name=Top>
<A Href="#Top"> Top</A>
```

Namethetagandattributeusedtosetcheckboxasselectedbydefault.

<Input Type= "Checkbox" value="Car" Checked>

Code	Output
<pre><form action="demo_form.asp" method="get"> <input type="checkbox" name="Ch1" >Bike
 <input type="checkbox" name="Ch2" checked>Car
 <input type="submit" value="Submit"> </form></pre>	

Explain the Definition List with a suitable example

Definition lists create a list with two parts to each entry: the name or term to be defined and the definition. This creates lists similar to a dictionary or glossary. There are three tags associated with the definition list: 1) <dl> to define the list 2) <dt> to define the definition term 3) <dd> to define the definition of the term

Code	Output
<pre><dl> <dt>Coffee</dt> <dd>Black hot drink</dd> <dt>Milk</dt> <dd>White cold drink</dd> </dl></pre>	<pre>Coffee Black hot drink Milk White cold drink</pre>

Write a code to create table given in fig

Table border is red

cell of first two rows should have different color

use spacing and padding accordingly shown in fig

Code

```
<html>
<body>
<table cellspacing=5 cellpadding =5 border=2 bordercolor="red">
<tr>
<td bgcolor="yellow" rowspan=2>Class</td>
<td bgcolor="pink" rowspan=2>Section</td>
<td colspan=2 bgcolor="Green"> Marks</td>
</tr>
<tr>
<td colspan=1 bgcolor="purple">English</td><td colspan=1 bgcolor="blue">Maths</td>
</tr>
<tr>
<td> XII </td><td> A </td><td> 90</td><td> 80 </td>
</tr>
<tr>
<td> XII </td><td>B</td><td> 80</td><td> 90 </td>
</tr>
</Table>
</Body>
</Html>
```

Class	Section	Marks	
		English	Maths
XII	A	90	80
XII	B	80	90