SOLUTION

PART - A

SECTION - I

1. The BORDERCOLOR attribute is used to specify the color of the table border.

💡 **Related Theory**
↪ *The TABLE tag is used to create a table. Attributes used with TABLE tag are BORDER, CELLPADDING, CELLSPACING, WIDTH, ALIGN, FRAME, and RULES.*

2. The values that can be specified for frame attribute are void and above.

Explanation: The FRAME attribute of <TABLE> tag is used to specify the visibility of outside borders.

Syntax:

    <table frame="value">

Attribute Values:

(1) **void:** It is used to hide the outside border.

(2) **above:** It is used to display the top outside border.

💡 **Related Theory**
↪ *The other attribute values are as follows:*
(1) Above – displays top edge only
(2) Below – displays bottom edge only
(3) Border - displays all four sides (default)
(4) Box - displays all four sides (like border)
(5) Hsides - displays top and bottom edges
(6) Lhs - displays left edge only
(7) Rhs - displays right edge only

3. Cyber fraud can be defined as any criminal activity in which a computer along with an internet connection is used to steal some information. It can also be defined as an act of terrorism committed through the use of cyberspace or computer resources.

Explanation: Cyber fraud is a computer oriented crime that involves a computer and a network connection. This crime utilises the technology, particularly computer technology, especially the internet. Any criminal activity in which a computer along with an internet connection is used to steal some information is called cyber fraud.

4. *<TR>, </TR>*

Explanation: <TR> tag is used when you want a new table row to begin and to end the same row </TR>is used.

💡 **Related Theory**
↪ *<TD> is used to define the data cells. It is used in front of every piece of information you want in a cell.*

5. SMS

Explanation: SMS refers to short message service through which you can send short text messages of up to 160 characters over mobile phones.

6. *<CAPTION>*

Explanation: The caption tag in HTML defines a table caption. The caption tag must be inserted immediately after the table tag for this purpose.

7. *Web address*

Explanation: Web address is also termed as Uniform Resource Locator or URL. It specifies the location of a webpage on the network.

8. *Privacy*

Explanation: To respect the privacy of a buyer, the seller must clearly state how the user's data will be used in the terms and conditions of it's website for the safety of the data provided by the user.

9. The valign attribute is used with <TD> tag which helps to align data in a single cell if the cell span is more than one row.

10. The word cyber ethics refers to a code of safe and responsible behavior for the internet community. Practising good cyber ethics involves understanding the risk of harmful and illegal behavior online.

11. Jio and Airtel.

12. WiFi and WiMax

Explanation: Wifi and WiMax are used to create wireless network connections. Wifi is used to create small networks and used to connect printers, computers, gaming consoles. WiMax uses spectrum to deliver connection to network. WiMax is used to provide internet services such as Mobile Data and hotspots.

13. Foreground colors can be entered as hexadecimal codes, or you can use the color names that is red or even as RGB values example RGB(255,0,0).

SECTION - II

14. (A) *(b) DRDO*

Explanation: DRDO is a network of more than 50 laboratories which are engaged in developing defence technologies covering various disciplines like aeronautics, electronics, combat vehicles, engineering systems, advanced computing and simulations etc.

(B) *(d) Limited number of certified branches of online payment*

(C) *(a) National e-Governance Plan*

Explanation: The National e-Governance Plan (NeGP) has been formulated by the government to promote e-Governance on a massive scale.

(D) *(d) Unavailability of network*

(E) *(c) e-bay*

Explanation: e-bay is an online shopping site.

(F) *(b) Buying books online*

(G) *(d) All of the above*

Explanation: e-Learning refers to the learning that takes place in electronically simulated environment.

15. (A) *(d) All of these*

Explanation: You can ensure protection of your digital properties in many ways. These are:

(1) **Anti-temper solutions:** These use advanced technologies to prevent hackers from hacking, reverse engineering or manipulating your digital properties.

(2) **Legal Clauses:** Legal clauses in software's Terms of Service prohibits the scraping of software's source code for reuse

(3) **Limiting the sharing of source code:** Source code of software should be shared only with the members of development team .

(B) *(a) Cyber Ethics*

(C) *(c) It recommends using some other person's work without giving credit to that person.*

Related Theory

➥ *Stealing someone else's intellectual work and representing as your own, without citing the source of information is called Plagiarism.*

(D) *(d) Installing antivirus for protection*

Related Theory

➥ *Anti-virus software is a computer program designed to detect and remove viruses from the computer system.*

(E) *(c) Reporting a vulnerability in the system*

Related Theory

➥ *A computer vulnerability is a cyber security term that refers to a defect in a system that can leave it open to attack. This vulnerability could also refer to any type of weakness present in a computer itself, in a set of procedures, or in anything that allows information security to be exposed to a threat.*

(F) *(a) QuickHeal*

(G) *(d) All of these*

PART – B

16. The top margin attribute is used to set a margin above the body of a document. The left margin attribute is used to set a margin at the left of the document.

Example:

```
<BODY TOPMARGIN = "80" LEFTMARGIN = "50">
```

Related Theory

➥ *There is no way to specify a right margin or a bottom margin of a document in HTML.*

17. The HTTPS protocol known as the secure hypertext transfer protocol is used for logging into websites using the username and password pair. The password is encrypted by the system and cannot be known by any eavesdropper. Thus, Vipul's password is safe from being compromised.

18. To create an external style sheet from internal or embedded style sheets which are generally used in the first stage of designing and building a new web page, you may simply cut the CSS rows enclosed in style tag and paste them on an empty text file and then save it giving. CSS extension to it. You can now link this external style sheet using linking, to as many web pages as you want.

19. Chatting is a type of conversation which can be either textual or multimedia which happens over the internet. It is a real-time communication between two users of internet via a computer or an

electronic device. It is widely interactive text-based communication process that takes place over the internet. It is necessary to be online while chatting.

20. There are majorly five types of websites available:
(1) Brochure website
(2) e-commerce website
(3) Portal website
(4) Wiki website
(5) Social media website

OR

The different ways to connect to the Internet are:
(1) Dial-up Connection.
(2) Broadband connection which includes cable modem, digital subscriber line and satellite.
(3) Leased lines.
(4) Wireless connection which includes- WiFi, WiFi Hotspots, WiMAX and Internet Dongles.

21. To ensure that the user privacy is not compromised the following measures must be taken:
(1) The merchant or the seller must clearly state about how the user data will be used, in the terms and conditions of its site.
(2) The merchant or the seller must ensure that the user has gone through the terms and conditions given on its site prior to making any transactions.
(3) The merchant must assure the user about data safety by implementing proper data safety and security measures on the site.

22. When we need a file which is located at the server's end, we have to download the file that means transmission of the file from the server to the user's computer. Similarly ,if we want to share something like a file or a picture, we have to upload that file or picture onto the Internet that means transmission of file from the user's computer to the server. Thus, transmission of data from the server to the user is called downloading and transmission of data from the user to the server is called uploading.

23. Quotation marks should be used around a phrase or search items as it limits the search results to only those webpages that contain the exact phrase that we have specified.Putting quotation marks around the search items on a search engine ensures that the concept will be searched for as a whole and not picked apart by the search engine. Without the quotation marks, the result will include any page that contains the words we have used to search regardless of what order those words are in.

24. The factors behind plagiarism are as follows:
(1) Fear of failure.
(2) Being lazy.
(3) Not having enough knowledge.
(4) Lack of enforcement.
(5) Lack of management skills.

25. In an email message, apart from the message text there are some other fields which are used for some specific purposes as listed below:
(1) To: in this field, the email address of the recipient is given.
(2) CC: in this field, the email addresses of the carbon copy recipients of the email are mentioned.
(3) BCC: In this field, the email addresses of the blind carbon copy recipients are mentioned.

<div align="center">**OR**</div>

The code is:

```
<HTML>
    <HEAD>
        <TITLE>An email </TITLE>
    </HEAD>
    <BODY>
        Send an email to
        <A HREF = "abc@xyz.com"> abc@xyz.com </A>
    </BODY>
</HTML>
```

26. (A) Headers are a simple form of text formatting that allows us to give a heading to a page or headings to a new section or subsection of a page.

Related Theory

→ *The six header elements (H1 through H6) are used to provide headers in varied text sizes based on the header level.*

(B) Sometimes you have to define a rule that is applicable to all the elements of a webpage. For such a requirement, you can define a universal rule.

A universal rule is defined by an "*" (asterisk) sign that denotes a CSS universal selector.

(C) Ramesh should type "weather" followed by the city name whose weather condition he wants to see and then type "today" in the Google search field. He will get the desired result.

(D) `<TABLE BORDER = 4 BORDERCOLOR = RED BGCOLOR = GREEN>`

(E) The text transform properties allowed in CSS are:
   (1) Capitalize
   (2) Uppercase
   (3) Lower case
   (4) None

<div align="center">**OR**</div>

```
<HTML>
    <HEAD>
        <TITLE> Wild Life </TITLE>
    </HEAD>
    <BODY bgcolor = "yellow" link = "black" vlink = "green">
        <H1 Align = "center">
        <FONT color = "maroon"> INDIAN ELEPHANT
        </FONT></H1>
        <FONT FACE = "ARIAL">
        <P align = "left">
            The Indian elephant (Elephasmaximusindicus) is one of the three recognized
            subspecies of the Asian elephant and native to mainland Asia, since 1986. The Asian
            elephant has been listed as endangered on the IUCN Red List as the wild population
            has declined by atleast 50% since the 1940's to 1950's The Asian elephant is threatened
            by habitat loss, degradation and fragmentation.
        </FONT></P>
        <IMG SRC = "elephant.jpg" align= "right" height = "100" width = "100">
        <P>
            See also:
            <UL type = "disc">
```

```
                    <LI><a href = "one .htm"><U> Sri Lankan Elephant</U>
                    </a></LI>
                    <LI><a href = "second .htm"><U> Sumatran Elephant</U>
                    </a></LI>
                    <LI><a href= "three.html"><U> Borneo Elephant
                    </U></a></LI>
                    <LI><a href = "four.html"><U> African Elephant </U></a>
                    </LI>
                </UL>
            </P>
            <FONT color = "blue">
                <CENTER><B> Threats to Elephants </B></CENTER>
            </FONT>
            <TABLE BORDER = "2px" width = "200" ALIGN = "CENTER"
                CELLSPACING = "1" BORDERCOLOR = "BLUE">
                <TR>
                    <TD> 1 </TD>
                    <TD> Illegal Hunting </TD>
                </TR>
                <TR>
                    <TD> 2 </TD>
                    <TD> Industrialization </TD>
                </TR>
                <TR>
                    <TD> 3 </TD>
                    <TD> Habitat loss < /TD>
                </TR>
                <TR>
                    <TD>4 </TD>
                    <TD> Fragmentation </TD>
                </TR>
                <TR>
                    <TD>5</TD>
                    <TD> Diseases </TD>
                </TR>
            </TABLE>
            <CENTER>
                <FONT Size = "4" align = "CENTER">
                    For further enquires and reservation :
                    <a href = "mailto: abc@xyz.com"> contact us </a>
                </FONT>
            </CENTER>
        </BODY>
    </HTML>
```

12

SOLUTION

PART - A
SECTION - I

1. The frame attribute contains 9 types of volumes.

Explanation: The purpose of the frame attribute is to specify which sides of a table frame should be displayed. It's always better to use CSS border-style properties instead of using frame attribute for table element.

Related Theory
- *Void* — *In this, only outside border are not displayed.*
- *Above* — *In this, only top outside is displayed.*
- *Below* — *In this ,only bottom outside border, is displayed.*
- *Hsides* — *In this, only top and bottom outside borders are displayed.*
- *Vsides* — *In this, only left and right outside borders are displayed.*
- *Lhs* — *In this, only left outside border is displayed.*
- *Rhs* — *In this, only right outside border is displayed.*
- *Box* — *In this, for all four sides, only outside borders are displayed.*
- *Border* — *In this, for all four sides, only outside borders are displayed*

2. The <FONT> tag in HTML is used to change the size, color and type face of the text on a HTML page.

Related Theory
- *The <FONT> tag uses attributes such as size, face, etc.*

3. *HTTP*

Explanation: HTTP handles the communication in between a web server and a web browser. HTTP is used for sending requests from a browser to a web server and then returning web content (web pages) from the server back to the client.

4. *digital estate*

Explanation: Digital estate refers to all of the assets that are in digital form, which includes online accounts, social media profiles, music, photos, videos, etc.

5. *repeat-x*

Related Theory
- *In repeat-y property the image is repeated vertically.*
  In repeat property the image is repeated vertically and horizontally.
  In no-repeat property the image is not repeated at all.

6. *hyperlinks*

7. *mobile communication technologies*

Explanation: 3G and 4G are mobile communication technologies through which you can connect to the Internet on the go and these offer different data rates for downloading and uploading.

8. *e-Reservation, e-banking*

Explanation: e-Reservation or online reservation is the process of making reservations of flight or train tickets through internet. It also includes the reservations of hotel rooms, tourist packages etc.

Availing the banking services through electronic measures via Internet is called e-banking. It is also referred as online banking, PC banking, mobile banking, internet banking and virtual banking.

9. Comments are used in HTML to increase the readability of the code, so that, the user will be able to understand the coding along with its meaning.

10. A Lesser General Public License (LGPL) is a license designated for an open-source software that allows provisions for including elements of free software in either free or proprietary software.

Related Theory
➜ *Lesser General Public License is sometimes referred to as "Library GPL" or "GNU libraries," and some associate it with the idea of engineering for libraries in shared resources.*

11. Email client software manages a user's email account or multiple accounts through a desktop application. Email clients work similarly to email managers provided by email software available with the browser, but are instead accessible through a downloaded program.

12. Spam is any kind of unwanted, unsolicited email or message that is sent out in bulk. Spam is a serious threat now a days.

13. A padlock icon, or lock icon, which is displayed on a web browser indicates a secure mode, where communications between browser and web server are encrypted. Such a type of connection is designed to prevent anyone from reading or modifying the data you exchange with the website.

SECTION – II

14. (A) *(b) PC banking*

Explanation: PC banking is a form of online banking that enables customers to execute bank transactions from a PC via a modem

(B) *(d) Cash withdrawal of money*

Explanation: Electronic banking is an umbrella term for the process by which a customer may perform banking transactions electronically without visiting brick-and-mortar institution. All the transactions are cashless as money transferred from one account to another is done electronically.

(C) *(d) All of the above*

Explanation: Although online shopping is convenient but not everyone chooses to purchase items and services online. Trials and same day delivery are not possible in e-Shopping. Moreover, your account details are also not safe every time.

(D) *(d) All of the above*

(E) *(d) All of the above*

(F) *(b) e-Shopping*

Explanation: e-Shopping or online shopping is the process of buying goods and services from the merchants who sell on the Internet.

(G) *(c) All of above*

Explanation: The major reason to conduct shopping online is convenience. The process can be conducted anytime without any extra effort. The online shopping sites also provides unique offers and discounts to their customers.

15. (A) *(d) Installing antivirus for system*

Explanation: Anti-virus software is a computer program designed to detect and remove viruses from the computer system.

(B) *(b) Section 66*

Explanation: Under Section 66 of IT Act, 2000 says that without proper authorization or permission, if any individual access, any computer system, it is a cyber crime.

(C) *(c) System with vulnerabilities*

Explanation: In cyber-security, a system having vulnerabilities is defined as the weakness in a system that can be exploited by cyber criminals and attackers for their own benefit. For this they use special tools and techniques in order to crack into the system through the vulnerabilities.

(D) *(b) Firewall*

Explanation: A firewall is a network security device designed to prevent unauthorized access to or from private network. A firewall is used to create a barrier between an internal network and incoming traffic from external sources to block malicious traffic such as viruses and hackers.

(E) *(a) Plagiarism*

Related Theory

↳ *To avoid plagiarism you must give credit whenever you use:*
(1) Another person's idea, opinion or theory
(2) Quotations of another person's actual spoken or written words; or
(3) Paraphrase of another person's spoken or written words.

(F) *(b) Spyware*

Explanation: Spyware is a term given to a category of software which aims to steal personal or organisational information. It is often hidden from the user.

(G) *(d) None of the above*

PART – B

16. SFTP refers to secure file transfer protocol. It is a secure protocol for file transfer and it ensures security of data based on the secure shell protocol.

17. https:// in a URL means that it is a secure connection and no one can see the private information that is entered onto the webpage and when the URL only contains http, then it is an insecure connection, which means the private information make get leaked to outside sources.

18. The major benefits of e-learning are:
   (1) It is easily manageable.
   (2) It is flexible.
   (3) It reduces the overall cost of the education system.
   (4) It is self paced and self-directed.

19. Merits of social networking are as follows:
   (1) It connects thousands of people over the globe.
   (2) It provides interaction and involvement with other people.
   (3) It helps to bring more awareness to neglected matters.
   (4) It provides a platform which is easy to use and to hold discussions and collect opinions.

20. There are many software penetration tools such as cracks and keygens. Such tools are created by hackers to penetrate the software's registration system and enable unauthorised users to freely access the software without actually paying for it.

OR

Data cell is defined as a cell of a table that contains the data of the table. The data of a table cell is coded in HTML with the <TD> tag of the <table> tag. Here, <TD> stands for table data. The content in the table cell is by default normal and left aligned.

21. In order to search for the definition of a specific term using Google you may type in "define" followed by the term whose definition you want to find. In order to convert a particular unit into another unit, specify the required from unit and the to unit conversion on the search bar of Google.

22. Stealing a credit card refers to a case where the credit card details of the user are stolen from his or her online activities and then some payment fraud is carried out with this stolen information. While the identity theft is also very scary, in which by stealing someone else's online identities such as his or her social media handle, email ID, etc., fraudulent posts are posted or some other malicious or dangerous activities such as rumour mongering or riots fuelling, etc are carried out.

23. Cyber crime is a term that is used to refer to digital or online criminal activities which are performed using computers and the internet. Cybercrime may include instigating or intimidating someone over the Internet or, downloading illegal files and stealing millions of dollars from bank accounts via the online method. Other offences like creating and distributing viruses on to other computers or posting confidential business information on the net is also a part of cybercrime. The most prominent form of cybercrime is using the internet to steal personal information of users leading to frauds.

24. (A) Virtual schools or online schools and e-learning can be taken up as an alternative to traditional classrooms.

(B) **Advantages:**

(1) In many cases, these virtual schools are all e-learning platforms which allow families and educators to evaluate a student in a much better way and provide a customised education to help the student learn and develop better.

(2) As each child has his or her own unique educational strengths, weaknesses, needs and preferences online schooling or virtual schooling allows the families and educators to carefully address such differences.

Disadvantages:

(1) Virtual schools lack the infrastructure that was found in traditional schools.

(2) Virtual schools also face certain difficulties adapting to paper and pen tests and assignments and their submissions.

25. Free software is the software which is free of cost, which can be copied, modified and redistributed as well but whose source code is not available. Open source software, on the other hand, is the software, whose source code is available and which can be copied, modified and redistributed as well. There may or may not be charges payable for an open source software.

An example of open source software is Linux.

OR

The digital age has led to new and challenging IP issues that any business that uses digital assets such as software, website should be completely aware of.

Following are the challenges inherent with digital intellectual property:

(1) Digital assets, can be infinitely, easily and cheaply reproduced. The infringement of digital intellectual property is much easier than reproducing physical work.

(2) It is also much easier to distribute it. Thousands of illegal copies of your digital IP can be sent around the world at the click of a button.

26. (A) A CSS selector is the part of CSS rules. It actually selects the content you want to style.

(B) The <B> tag is used to change the text to bold.

The <I> tag is used to change the text to italics.

The <U> tag is used to underline the text enclosed within the tag.

(C) **Margin:** The margin is the distance from each side to the neighboring element or the borders of the document.

Padding: It can also be understood as filling but it does not affect the distance of the element to other elements but only defines the inner distance between the border and the content of the element.

Related Theory

→ *Margins are specified through four properties that are margin left, margin right, margin top and margin bottom.*

→ *There are four padding values that is padding top, padding right, padding bottom and padding left.*

(D) To display a text in a title bar of a browser, use the <TITLE> tag inside the <HEAD> tag in the HTML document.

Related Theory

→ *<HTML>*
  <HEAD>
    <TITLE>Examination</TITLE>
  </HEAD>
  <BODY>Examination is a test of what one has learnt in the past.
  </BODY>
</HTML>

(E) The values that can be specified for rules attribute are as follows:

  (1) None: no rules are drawn or hides all interior borders.

  (2) Groups: rules are drawn between row groups and column groups.

  (3) Rows: rules are drawn between rows only.

  (4) Cols: rules are drawn between columns only.

  (5) all rules are drawn between all rows and all columns.

  (Note: Students can write any two values)

OR

The code is:

```
<HTML>
    <HEAD>
        <TITLE>Dubai </TITLE
    </HEAD>
    <BODY>
        <FONT face = "ARIAL">
            <center> H2 Color ="maroon"> Welcome to DUBAI </H2></center>
        </FONT>
        <IMG SRC = "burj.jpg" align= "center" width= "100" Height= "200">
        <P>
            Enjoy the world of pure travel and pleasure...
        </P>
        <P>
            The following is a list of major tourist attractions in Dubai:
            <UL type= "disc">
                <LI><A hreyf= "morning.html"> Morning </A> - dolphinarium and Palm Dubai</LI>
                <LI><A hreyf="evening.html">Evening</A> -Ski Dubai and Cruise </LI>
            </Ul>
        </P>
        <center> For enquires write at dubai@gmail.com
        </center>
    </BODY>
</HTML>
```

SOLUTION

PART - A

SECTION - I

1. The Summary attribute of the <table> tag lets you denote the summary of the table's data.

💡 **Related Theory**
↪ *The Summary attribute provides a summary (purpose and structure) of the table for non-visual browsers*
Syntax:
   <table summary = "value">

2. <thead>, <tfoot> and <tbody> tags divide the HTML tables into multiple sections.

💡 **Related Theory**
↪ *The <thead> tag is used to define set of header rows.*
↪ *The <tfoot> tag is used to define the footer of the table.*
↪ *The <tbody> tag is used to define the body section of the table*

3. DNS or Domain Name System is a hierarchical distributed naming system used for computers, services or any other resources connected to the Internet or to a private network. It associates information with the domain names assigned to each entity.

💡 **Related Theory**
↪ *The different functions of DNS are as follows:*
   (1) It translates meaningful domain names into the numerical IP addresses, which are required for the purpose of locating computer devices around the world.
   (2) It serves as a phone book for the Internet by translating human friendly computer host names into numerical IP addresses.
   (3) The DNS can be quickly updated, thereby allowing a resource's location on the internet to change without affecting the end users.
   (4) It distributes it's responsibility of assigning domain names and mapping those names to IP addresses by designating authoritative named servers for each domain.
   (5) It also specifies the technical functionality of the database service. It defines the DNS protocol, along with a detailed specification of the data structure and communication exchanges used in DNS, as part of the Internet Protocol Suite (IPS).

4. *protocol*

Explanation: A protocol is a set of rules that governs the communication between computers on a network.

5. *chat room, video conferencing*

Explanation: A chat room is a website or a part of some online service that provides an online venue for communities or separate users with a common interest to communicate with each other in real time i.e. instantly.

Video conferencing is a technology that allows user in different locations to hold face to face conversations or meetings without having to move to a single location together.

6. *default web browser*

Explanation: HTML is a language used to design the layout of a document and to specify the hyperlinks. It tells the browser how to display the contents of a hypertext document

7. *<!--comments-->*

🪔 **Related Theory**
➥ *Comments in HTML are the parts of the code which are not executed and are present in order to make the program much more readable.*

8. *ISP*

🪔 **Related Theory**
➥ *ISPs or Internet Service Providers are the companies that register themselves under the government domain according to the copyright law in order to provide its users with internet services.*

9. Inline style sheets get precedence over internal and external style sheet when multiple types of style sheets are used with the same webpage.

10. Web bugs are small transparent graphics that are placed in webpages or email messages to collect detailed information about online purchasing and surfing habits.

11. Remote login, also referred to as remote access, is the ability to get access to a computer or a server or a network from a different computer that is situated at a different location.

12. FTP or file transfer protocol helps in the transfer of files from one point to another whereas, telnet is a protocol that helps to establish a connection allowing a user to connect to a remote server and facilitating remote login.

13. A digital signature is an electronic file that can be issued by a Certification Authority (CA) only.

SECTION - II

14. (A) *(a) Short Message Service*

🪔 **Related Theory**
➥ *SMS is used to send text messages to mobile phones. It is used to send short messages of upto 160 characters*

(B) *(b) Multimedia Messaging Service*

🪔 **Related Theory**
➥ *MMS (Multimedia Messaging Service) is a standard way to send messages that include multimedia content to and from a mobile phone over a cellular network.*

(C) *(b) 3G*

Explanation: 3G stands for "Third Generation" and originally enabled wireless devices to operate at normal speed of 384 kbps

🪔 **Related Theory**
➥ *The "G" used with 1G, 2G, 3G, 4G etc. stands for generation of mobile technology.*

(D) *(c) 4G*

Explanation: 4G is the fourth generation of mobile technology with enhanced download and upload speeds and better connectivity.

(E) *(c) SMS*

(F) *(a) MMS*

(G) | **Note:** There is a misprint in option (b). The correct option (b) is Mobile Communication Technology. |
(b) Mobile Communication Technology

Explanation: 3G and 4G are Mobile communication technologies through which you can connect to Internet on the go and these offer different data rates for downloading and uploading.

15. (A) *(b) Privacy*

Explanation: Privacy is the protection of personal information given online while carrying out some online activity or transaction. In e-commerce especially it is related to company's policies on the use of user data.

(B) *(a) Cyber Security*

(C) *(c) SSL*

Explanation: SSL (Secure Sockets Layer) is a standard security protocol which establishes encrypted links between a web server and a browser in an online communication. The usage of SSL ensures that all data transmitted between the web server and browser remains encrypted and hence remains safe.

(D) *(d) Secure Shell*

Explanation: SSH is a secure protocol for remotely logging into machine via a shell where all data between the client and server is encrypted. This ensures that only the client and the server will have access to actual data.

(E) *(d) All of these*

(F) *(c) It recommends using some other person's work without giving credit to that person.*

Related Theory

→ *Using some other person's work and representing it as your own work without giving credit to creator or without citing the source of information is called plagiarism.*

(G) *(c) Cipher Text*

Related Theory

→ *Data encryption translates data into another form or code so that only people with access to secret key or password can read it. Encrypted data is commonly referred to as cipher text.*

PART - B

16. Fraudulent pop-up window is another type of online fraud. The window pop-up are ads that appear suddenly over or under the window you are currently viewing. These are usually used to obtain personal information such as email id, phone number etc.

17. Spyware tracks the websites visited by a user, and uses this information to build a profile. Some spyware can even collect personal information from forms filled out online. It may be used for identifying user habits and post advertisements accordingly or sometimes even vital information like username or passwords may be transmitted.

18. Card Verification Value (CVV is a three or four digit code on the back of a credit card under PCI (Payment Card Industry) standards, retailers are not allowed to store this number, even if they record customer's names, addresses and credit card numbers for future transactions. A CVV requirement makes it diffcult for a fraudulent transaction to be processed.

19. The major reason for implementing SFTP versus FTP is security. FTP is not even remotely secure. During an FTP session, our user name and password are transmitted in clear text. If someone is eavesdropping, it is not difficult for them to log the FTP username and password. With SFTP all the data is encrypted before it is sent across the network.

Related Theory

→ *SFTP: Secure file transfer protocol (SFTP) is a secure protocol for file transfer and it ensures security of data based on the secure shell protocol.*

20. (A) TDMA-Time Division Multiple Access.

(B) CDMA-Code Division Multiple Access.

(1) **2G** - Second generation is the first digital cellular system with data speed up to 64 kbps.

(2) **3G** - Third generation enhances the speed up to 2Mbps, it also allows voice and video calls.

21. The major benefits of e-groups are as follows:

(1) It helps to keep us in touch with other members. It also allows members to exchange messages, plan vacations, participate in a meeting online, or share news with other members of the group.

(2) Each e-group has its own email address, message board, calendar, photo album and more.

(3) It is an avenue to make friends. One can choose to keep the e-group public or private depending on the preference.

(4) It also builds a community without the technical hassle. You don't need to be well versed in HTML or web design to create an online community. The entire process of creating and maintaining an e-groups is very simple.

22. Demerits of social networking are as follows:

(1) Some people with wrong intentions can misuse the personal information posted by innocent users.

(2) Some people spreading baseless 'facts' result in complete abuse of the freedom of expression.

(3) There are numerous fake profile users on these sites. 'Orkut' lost its credibility mainly due to a growing use of such profiles.

(4) Undesirable elements have crept up, who resort to needless bullying, defamation harmful commenting and pranks and persecute helpless, innocent victims and people. Such practices cause emotional trauma both for the victim and the 'bully'.

23. The positive impact of e-governance are as follows:

(1) e-governance program have improved the effciency of administration and service delivery.

(2) It has resulted in reduced waiting time before the work is done.

(3) People also have benefitted from it in the form of reduced cost of availing the service.

(4) It has proven successful in keeping a tab on corruption to some extent.

(5) These programs have resulted in increased transparency and increased accountability of government offces.

24. Web servers are computers that deliver (serves up) Web pages to the user whereas a Web portal is a specially designed website that brings about information from diverse sources, like emails, forums and search engines, together in a uniform way. Thus, for the company the web portal would be more preferable than a web server. So, the company should build (B) Web Portal.

25. The activities of users which involve unauthorized copying, reproduction, use, or manufacture of software products is called software piracy. Most retail practices are licensed in such a way that it is used at just one computer or for use by only one user at any time. Whenever you buy a software, you become a licensed user of that software rather than an owner and therefore, you are only allowed to make copies of the program for backup purposes, but you cannot give or share those copies to friends and colleagues, and it is also against the law.

<div align="center">OR</div>

Cyber crime is a term which is used to refer to all kinds of criminal activities performed using computers and the Internet. This may include instigating or intimidating someone over the internet, downloading illegal files and stealing millions from online bank accounts. Other offences like creating and distributing viruses and/or malicious code on other computers through the internet or posting confidential business information on the Internet are also a part of cyber crime. Conceivably, the most prominent form of cyber crime is using the internet to steal personal information from other users leading to identity theft. To do this, criminals usually use two common methods phishing and pharming.

26. (A) <i> </i> tags cause the browsers to render the text in italics.

Explanation: Text written between <i> and </i> tags is displayed in italics. The tag has both opening and closing tags.

Related Theory

➥ *The text that needs to be made bold must be given within and tag*

(B) It will print out Computer in bold font.

Explanation: The <strong> tag is used to define text with strong importance. The content inside is typically displayed in bold.

Related Theory

➥ *Use the <b> tag to specify bold text without any extra importance.*

(C) No, justified alignment cannot be assigned in HTML.

Related Theory

➥ *All the browsers support left, center and right alignments. But justified alignment is not supported by any one of them.*

(D) In her webpage she will add the following code:

<A href = http://www.children.com/india/~shreya.html>

(E) Rowspan allows a single table cell to span the height of more than one cell or row. Colspan allows single table cell to span the width of than one cell or column.

Explanation: These attributes have numeric values, for example, colspan = 3 will span three columns.

OR

```
<HTML>
    <HEAD>
        <TITLE> Too Much Cash Bank </TITLE>
    </HEAD>
    <BODY
        <BASEFONT FACE = "ARIAL" >
        <H3><FONT COLOR = "BLUE">Too_Much_Cash Bank of Money Land
        </FONT>
        <HR>
        <P>
        <FONT CLOLOR = "MAROON">
        </P>
        <B>
        Saving Offer: Financing Offer ! Rush !</B>
        </FONT>
        <DL>
            <DT><FONT COLOR = "BLUE"> Accounts </FONT></DT>
            <DD><A HREF = "current.html"> Current Accounts </A>
            </DD>
            <DD><A HREF = "recurring.html"> Recurring Accounts
            </A></DD>
            <DD><A HREF = "saving.html"> Saving Accounts </A>
            </DD>
            <DT><FONT COLOR = "BLUE"> Finance </FONT></DT>
            <DD><A HREF = "housing.html"> Housing Loans </A></DD>
```

```
                    <DD><A HREF = "car.html"> Car Loans </A></DD>
                    <DD><A HREF = "consumer.html"> Consumer Goods Loans
                    </A></DD>
            </DL>
            <HR>
            <CENTER><A HREF = "computer.html"><FONT size ="2">
            for enquiries: Mail to us </FONT></A></CENTER>
        </BODY>
</HTML>
```