



FOUNDATION OF INFORMATION TECHNOLOGY

Subject Code: 0165

Class X (Term I)

Time: 3 hours

Max. Marks: 80

SECTION-A

1. Fill in the Blanks

[10]

1.1 Web sites are located on

Ans. Web servers

1.2 A is used to browse the web.

Ans. Web browser

1.3 When you visit a web-site, the first page that opens is called of the site.

Ans. Home page

1.4 192.168.1.41 is an example of an

Ans. IP Address

1.5 A is an organised collection of data.

Ans. Database

1.6 A database consists of one or more which store the data.

Ans. Tables

1.7 A record in a table is also known as a

Ans. Row

1.8 An HTML tag may also contain one or more

Ans. Attributes

1.9 tag is a/an element.

Ans. Container

1.10 tag is used to insert an image in an HTML document.

Ans.

2. State true or False

[10]

2.1 Internet is a service available on WWW.

Ans. False

2.2 HTTP is a protocol.

Ans. True

2.3 ARPANet was set up by NASA.

Ans. False

2.4 When data is downloaded from the net, data is transferred from the user's computer to the web server.

Ans. False

2.5 Using a web browser we can only view but cannot create web pages.

Ans. True

2.6 Cc component of an e-mail message has the same role as the bcc component.

Ans. False

2.7 Data may be entered in a table using forms.

Ans. True

2.8 A table in a database may have multiple primary keys.

Ans. False

2.9 FTP stands for File Transfer Protocol.

Ans. True

2.10 All HTML tags are container elements.

Ans. False

3. Read the following paragraph and answer the questions that follow: [10]

XYZ Chemicals Ltd. has advertised for some vacancies in its office. Eligible candidates have to apply online for these posts. After the last date for receiving the applications, the company shortlists some candidates and informs them through e-mail. The candidates have to appear at company's office for an online test and interview through video conferencing on a specified date. After video conferencing, the selected candidates are again informed through e-mail.

1. How are the following features/services beneficial for the applicants and the company? [8]

- Inviting applications online
- Informing the candidates through e-mail
- Conducting online test
- Holding the interview through video conferencing

Ans. a. Saves time for the applicants and money for the company.
b. It helps the applicants to get the information anywhere and anytime. It helps the company in getting surety that information has been delivered to all the candidates.
c. As the result is received instantly after the completion of online test, the failed applicants need not to wait for long. On the other side, the company gets the suitable candidates instantly after the completion of test.
d. For the applicants, it becomes more comfortable to conduct interview through video conferencing. It also saves the transportation time and cost of the applicants. On the other side, it helps in saving the arrangement cost for the company.

2. How is it possible for the candidates to send the following through e-mail? [2]
- Bio-data which they have created using a word-processor.
 - Photograph which they have scanned and saved as a .jpg file.

Ans. a. It can be sent by the applicants as an attachment with the e-mail.
b. The photograph can be sent as an attachment with the e-mail.

4. Answer the following questions: [2×8]

- 4.1 Shravan Joshi is a student of Political Science and is a keen researcher of political issues related to various countries and states. He wants to share his research and his own opinion on these issues on day-to-day basis with everyone on World Wide Web. He is also interested in collecting views of others to enhance his research and knowledge related to his area of interest. He belongs to a poor family and cannot afford his own website. Also being a non-technical person, he cannot create a dynamic website to deal with day-to-day inputs.
- Suggest an easy way for Shravan to achieve the same.
 - Name two popularly used free services that can help Shravan in this regard.

Ans. a. Shravan can develop a blog.
b. Twitter and Google Blogger

- 4.2 As life gets busier, it becomes difficult for everyone to keep track with school and college friends, old colleagues, old neighbours and favourite teachers. It is important to keep in touch with all your near and dear ones. At times, people sitting miles away doing similar kind of activity or solving similar kind of problem can help you achieve goals faster by sharing their experiences. Similarly, people belonging to different socio-economic background can change your perspective and enhance your understanding of various cultures.

- Suggest the real time tools that are suitable for the above mentioned activities.
- What is the generic name used for such tools?

Ans. a. Facebook and Twitter b. Social networking

- 4.3 Laleema Chakradhar wants to learn how to create simple web pages. For this purpose which language should she learn? Which software will she need to learn and practice this language?

Ans. She should learn HTML. For this language, she needs a text editor, such as Notepad or wordpad or gedit Text Editor, and a Web browser to run the code.

- 4.4 Identify domain name(s) and URL(s) from the following list:

- yoga@yoga.com

- DoYogaEveryday.com
- www.doYogaEveryday.com/old/Index.html
- www.PerformingArts_schools.org/backlink.htm
- 192.168.0.1
- http://cbse.nic.in

Ans. b and f are domain names.
c and d are URLs.

- 4.5 Suggest any two benefits of having computerised employee payroll system.

Ans. a. Any relevant information is available instantly.
b. Calculation mistakes are avoided.

- 4.6 Differentiate between container and empty elements of HTML.

Ans. Container elements are those elements that require both opening and closing tags. The HTML, HEAD, BODY and FONT are some common examples of container elements. On the other hand, empty elements are those elements that do not require any closing tag. The HR and BR elements are common examples of empty elements.

- 4.7 Which of the following is not an example of a database?

- Cross n Knot game
- Employee payroll management
- Numeric Calculator
- Customer Management System

Ans. c

- 4.8 Identify the errors and write the corrected HTML statements.

- <BODY BACKGROUND = "Red">
-

Ans. a. <BODY BGCOLOR = "Red">
b.

5. Do as directed: [12]

- 5.1 Ms. Poonam is the class teacher of III-C in a school. She is computer savvy and wants to keep information about her students in a database. She needs this information for the following purposes:

- She has to contact the parents frequently through phone calls or e-mail.
- She has to keep comments about the students. These comments help her during PTMs.

Suggest any six fields and their data types to keep the relevant information. [6]

Ans.

S.No.	Field	Data Type
1.	Adm_Number	Number
2.	Name	Text
3.	F_Name	Text
4.	Phone	Text
5.	E_mail	Text
6.	Comments	Memo

- 5.2 Look at the following fields which are used to keep voters' ID card data in a table:

CardNo, VoterName, Address, FatherName, DOB

- Suggest the data type for each of these columns. [5]
- Suggest the column name(s) which can be used as its primary key. [1]

Ans. a.

S. No.	Field	DataType
1.	CardNo	Text
2.	VoterName	Text
3.	Address	Text
4.	FatherName	Text
5.	DOB	Date

- CardNo field can only be used as its primary key.

6. The management of a medical store, GetWellSoon Medicos, decides to computerise its inventory. [6]
- Suggest any two tables which must be present

in the database. You also have to suggest fields of the tables along with their datatypes.

- Mention any two benefits that the management will have by computerising the inventory.

Ans. a.

Table: Medicine

Field	DataType
Code	Text
Name	Text
CostPrice	Number
SellingPrice	Number
Bal_Qty	Number

Table: Supplier

Field	DataType
S_Code	Text
S_Name	Text
S_Address	Text
S_Phone	Text

- Stock checking can be done easily.
 - Exact information about shortage of any medicine can be obtained.

SECTION-B

7. Multiple-Choice Questions (Choose the most appropriate option) [1x16]

- 7.1 Employee payroll management is an example of
- Business computing
 - Website management
 - Both (a) and (b)
 - Neither of (a) and (b)

Ans. a

- 7.2 Which of the following services is not provided by an Internet Service Provider (ISP)
- An Internet connection
 - Web Browser
 - Modem
 - Technical Help

Ans. b

- 7.3 In the <HR> tag, HR stands for
- Horizontal Row
 - Horizontal Rule
 - Horizontal Record
 - None of these

Ans. b

- 7.4 Each computer on a network has a IP address.
- common
 - null

- unique
- backup

Ans. c

- 7.5 A bot is used by

- A website
- A web browser
- A web Page
- A search engine

Ans. d

- 7.6 A modem converts

- Analog information into digital
- Digital information into analog
- Neither of the above
- Both a and b

Ans. d

- 7.7 In a web page, a table is created using

- <Create Table> tag
- <TR> tag
- <Table> tag
- <TD> tag

Ans. c

- 7.8 A domain name ending with .edu belongs to

- An educational institution
- A commercial unit
- A defence institution
- An NGO

Ans. a

7.9 Which of the following is not an attribute of <BODY> tag?

- a. COLOR
- b. BGCOLOR
- c. BACKGROUND
- d. ALINK

Ans. a

7.10 Which of the following is not an attribute of tag?

- a. COLOR
- b. BGCOLOR
- c. SIZE
- d. FACE

Ans. b

7.11 is used to create items of an.

- a. Ordered list
- b. Unordered list
- c. Neither of (a) and (b)
- d. Both (a) and (b)

Ans. d

7.12 An ordered list

- a. Can be nested in an unordered list
- b. Cannot be nested in another ordered list
- c. Starts with <LIST> tag
- d. Ends with tag

Ans. a

7.13 Out of the following which is the most appropriate data field in context of employee table if only one of them is required.

- a. Age is years
- b. Date of birth
- c. Age in days
- d. Age in months

Ans. b

7.14 What is the most suitable data type for a telephone_number field in a table?

- a. text
- b. number
- c. memo
- d. date

Ans. b

7.15 A table in a database

- a. Must have a primary key
- b. May have a primary key
- c. Has multiple primary keys
- d. May have multiple primary keys

Ans. b

7.16 Which of the following is not true for a database table?

- a. It may contain multiple records
- b. It may contain multiple tables
- c. It may contain multiple columns
- d. It may contain multiple candidate keys

Ans. b

SECTION-A

Fill in the Blanks

[10]

1.1 is the extension of an XML file.

Ans. .xml

1.2 attribute is used with <A> tag to specify the URL of link.

Ans. HREF

1.3 XML attribute value should always be enclosed in

Ans. Double Quotes

1.4 In HTML while creating a table, we cannot use background attribute with tag.

Ans. <TR>

1.5 is the software that is downloaded on your computer to track your activities without your knowledge.

Ans. Spyware

1.6 An XML document can have only one element.

Ans. Root

1.7 and attributes make the image take proper proportions in a web browser.

Ans. Height, Width

1.8 Unlike a computer virus, a can replicate itself automatically.

Ans. Worm

1.9 A is a person who attempts to maliciously hack computer or computer networks.

Ans. Cracker

1.10 A is a copy of data used to screen lost or corrupted data.

Ans. Backup

2. State True and False

[10]

2.1 An XML document can have only limited number of child elements.

Ans. False

2.2 A virus may corrupt or delete data on your computer.

Ans. True

2.3 No value is specified with ALT attribute of tag.

Ans. False

2.4 ROWSPAN attribute with <TABLE> tag is used to merge more than one cell row wise.

Ans. True

2.5 Unsolicited bulk e-mails are called spam.

Ans. True

2.6 ALIGN and VALIGN are the attributes used with <TD> tag to set the alignment of data in a table.

Ans. True

2.7 BORDER is an attribute of <A> tag.

Ans. False

2.8 XML stands for Extensive Markup Language.

Ans. False

2.9 XML is case sensitive.

Ans. True

2.10 Target attribute with <A> tag is used to open a link in a new window.

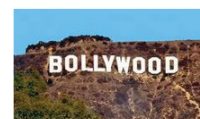
Ans. True

3. Carefully study the Webpage given below. Identify any 10 tags that have been utilized in creating this webpage for each tag specify whether it is a structural tag or formatting tag and write the usage of each of them. [15]

This website is a gateway to film reviews, following is a list of the top 5 films running successfully in cinema halls in June 2010.

Top 5 Films of 2010

1. Rajneeti
2. Prince of Persia
3. HouseFull
4. Iron Man 2
5. Kites



[Click here to see list of upcoming movies](#)

Ans. Following are the 10 tags that are used to create the preceding Web page along with their one line description:

- a. <HTML>: Refers to a structural tag that is used to mark the starting and ending of an HTML document. It ends with </HTML>.
- b. <BODY>: Refers to a structural tag that contains all the visible content, such as text, images and link of a webpage. It ends with </BODY>.
- c. <P>: Refers to a formatting tag that is used to begin a new paragraph.
- d. <U>: Refers to a formatting tag that is used to underline text in an HTML document. It ends with </U>.
- e. <CENTER>: Refers to a formatting tag that centralizes the text on a Web page. It ends with </CENTER>.
- f. <H1>: Refers to a formatting tag that is used to mark text as largest heading. It ends with </H1>.
- g. : Refers to a formatting tag that inserts inline images on a Webpage.
- h. : Refers to a formatting tag that inserts numbered lists. It ends with .

- i. ``: Refers to a formatting tag that marks the list items in a list. It ends with ``.
- j. `<A>`: Refers to a formatting tag that inserts hyperlink on a Webpage. It ends with ``.

4. Answer the following questions:

- 4.1 Shreenivasan is working for an IT firm where he needs to backup his data of around 200 MB to 400 MB at the end of each day. Each day backup needs to be archived separately for future reference. Suggest any two economic data backup devices, which he can use for this purpose. [2]

Ans. CD and DVD

- 4.2 Differentiate between Hacker and Cracker. [2]

Ans. Both hackers and crackers are proficient programmers and know all of the intricacies of a computer system. However, hackers are people who break into a computer with no malicious intention. On the other hand, crackers are people who gain unauthorized access to a computer with malicious intention, such as stealing information or causing harm to the computer by destroying software. A cracker is a master of breaking systems to hamper the system's security whereas a hacker breaks system to gain knowledge.

- 4.3 Name one specific software/tool for each of the following category: [5]

- a. Antivirus Software
- b. Data Recovery Tool
- c. Online Backup Tool
- d. Text Editor to create HTML pages
- e. Open Source Web Browser

Ans. Following are the specific tool/software for each category:

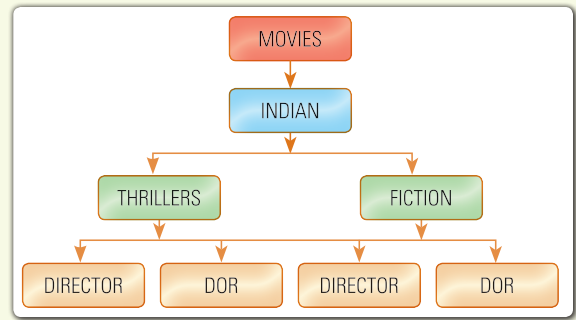
- a. Antivirus software- McAfee
- b. Data recovery tool- NTFS-reader
- c. Online backup tool- Dropbox
- d. Text editor to create HTML pages- Notepad
- e. Open source Web browser- Mozilla Firefox

5. Do as directed [10]

- 5.1 Draw the XML tree for code given below: [5]

```
<MOVIES>
<INDIAN>
<THRILLERS>
<DIRECTOR>ABC</DIRECTOR>
<DOR>1/10/2009</DOR>
</THRILLERS>
<FICTION>
<DIRECTOR>XYZ</DIRECTOR>
<DOR>15/10/2009</DOR>
</FICTION>
</INDIAN>
</MOVIES>
```

Ans.



- 5.2 Write the HTML code to generate the following output of a table with the content exactly in the same format as shown within the table: [5]

CUSTNO	CUSTNAME	CUSTADD	DOB
C1110	DALJIT	C-41, PARK STREET, KOLKATA	4-MAR-1988

Ans.

```
<HTML>
<HEAD>
</HEAD>
<BODY>
<TABLE BORDER="3">
<TR ALIGN="center"
VALIGN="middle">
<TH CUSTNO </TH>
<TH CUSTNAME </TH>
<TH CUSTADD </TH>
<TH DOB </TH>
</TR>
<TR ALIGN="left" VALIGN="bottom">
<TD C1110 </TD>
<TD DALJIT </TD>
<TD C-41, PARK STREET, KOLKATA</TD>
<TD 4-MAR-1988 </TD>
</TR>
</TABLE>
</BODY>
</HTML>
```

6. Write the HTML code to generate the following output: [10]

KHAO PIYO RESTAURANT

Collect information for

- [menus](#)
- [reservation](#)
- [catering](#)
- [tours](#)

Menu available are

1	INDIAN
2	ITALIAN
3	CONTINENTAL
4	THAI

For further enquiries and reservations [Contact Us](#)

Note the following points while generating the Webpage:

- Link colour is green, active link colour is blue and visited link colour is red
- Title of the page is "Eat healthy live healthy"
- Heading of the page is maroon
- Image used is "Restaurant.jpg"
- Caption of table is blue
- Table border is blue and of size 2
- The 4 links are one.html, two.html, three.html and four.html
- The e-mail id for contact us is abc@xyz.com

Ans.

```
<HTML>
<HEAD>
<TITLE> Eat healthy live healthy
</TITLE>
</HEAD>
<BODY LINK="Green" ALINK="Blue"
VLINK="Red">
<H1 ALIGN="center"> <FONT
COLOR="maroon"> KHAO PIYO
RESTAURANT </FONT> </H1>
<IMG SRC="Restaurant.jpg"
ALIGN="right" HEIGHT="200"
WIDTH="200">
<FONT COLOR="purple" SIZE="4">
Collect information for
<UL>
```

```
<LI> <A HREF="one.html">menus</
A></LI>
<LI> <A HREF="two.
html">reservation</A></LI>
<LI> <A HREF="three.
html">catering</A></LI>
<LI> <A HREF="four.html">tours</
A></LI>
</UL>
</FONT>
<CENTER> <FONT SIZE="4">
<TABLE BORDER="2"
BORDERCOLOR="blue">
<CAPTION><FONT COLOR="blue">Menus
available are</FONT></CAPTION>
<TR><TD>1</TD><TD>INDIAN</TD></TR>
<TR><TD>2</TD><TD>ITALIAN</TD></
TR>
<TR><TD>3</TD><TD>CONTINENTAL</
TD></TR>
<TR><TD>4</TD><TD>THAI</TD></TR>
</TABLE>
</CENTER>
<BR>
For further enquiries and
reservation <A HREF="mailto:abc@
xyz.com">Contact Us </A>
</FONT>
</BODY>
</HTML>
```

SECTION-B

7. Multiple-Choice Questions (Choose most appropriate option)

[16]

7.1 Which of the following is an attribute of <Table> tag?

- a. SRC
- b. LINK
- c. CELLPADDING
- d. BOLD

Ans. c

7.2 To avoid problems while working with internet, you should follow these precautions.

- a. Install antivirus on your computer
- b. Take the back-up of your files regularly
- c. Do not click on unknown links
- d. All of the above

Ans. d

7.3 What is the correct syntax in HTML for creating a link on a webpage?

- a. <LINK SRC= "abc.html">
- b. <BODY LINK = "abc.html">

- c.
- d.

Ans. d

7.4 Which HTML tag would be used to display power in expression $x^2 + y = 10$?

- a. <SUP>
- b. <SUB>
- c.
- d. <P>

Ans. a

7.5 Output of XML document can be viewed in a

- a. Word Processor
- b. Web browser
- c. Notepad
- d. None of these

Ans. b

7.6 An independent computer program that copies itself from one computer to other in a network is called:

- a. Worm

- b. Trojan
- c. Bug
- d. Antivirus

Ans. a

7.7 Choose the correct HTML code to create an e-mail link.

- a.
- b.
- c. <MAIL>xx@yy.com </MAIL>
- d.

Ans. b

7.8 Choose the correct HTML tag to make the text bold.

- a.
- b. <BOLD>
- c.
- d. Both (a) and (c)

Ans. d

7.9 What is the correct way of describing XML data?

- a. XML uses a DTD to describe data
- b. XML uses a description node to describe data
- c. XML uses XSL to describe the data
- d. XML uses a validator to describe the data

Ans. a

7.10 Which statement is true?

- a. An XML document can have one root element
- b. An XML document can have one child element
- c. XML elements have to be in lower case
- d. All of the above

Ans. a

7.11 Which is not a correct name for an XML element?

- a. <xmldocument>
- b. <7eleven>
- c. <phonenumber>
- d. <root>

Ans. b

7.12 Is this a "well formed" XML document?

```
<?xml version="1.0">
<note>
<to age = "29">Tove</to>
<from>Jani</from>
</note>
```

- a. Yes
- b. No
- c. Cannot be determined without the DTD
- d. None of the above

Ans. b

7.13 Well formed XML document means

- a. It contains a root element
- b. It contains an element
- c. It contains one or more elements
- d. Must contain one or more elements and root element must contain all other elements

Ans. d

7.14 Choose the correct HTML tag for the largest heading

- a. <H1>
- b. <H6>
- c. <H10>
- d. <HEAD>

Ans. a

7.15 Out of the following, which one will be altered or modified by a computer virus?

- a. Operating System
- b. Speed of Network Connectivity
- c. Application Software
- d. All of the above

Ans. d

7.16 Comments in XML document is given by:

- a. <? ____>
- b. <! ____!>
- c. <!-- -->
- d. </ ____>

Ans. c