

Sample Question Paper
FOUNDATION OF INFORMATION TECHNOLOGY
Class-X (Code- 165)
Design of Question Paper 2012 Examinations
Term - II

TIME : 3 Hrs

MM : 80

Weightage of marks over different dimensions of the question paper shall be as follows:

A. Weightage to different topics/content units

S.No	Topics	Marks
1	Information Processing Tools	30
2	IT Applications	33
3	Societal impacts of IT	17
	Total	80

B. Weightage to different forms of questions

S.No	Forms of Questions	Marks for each question	No. of Questions	Total Marks
1	Fill in the blanks	01	10	10
2	True/False 01	10	10	
3	Short answer questions - Type I (SA I)	02	02	4
4	Short answer questions - Type II(SA II)	05	03	15
5	Long answer questions (LA I)	10	01	10
6	Long answer questions (LA II)	15	01	15
7	Multiple Choice Questions	01	16	16
	Total		43	70

Sample Question Paper

FOUNDATION OF INFORMATION TECHNOLOGY Class-X (TERM II)

TIME : 3 Hrs

MM : 80.

SECTION – A

1. Fill in the blanks: [10]
- 1.1 _____ is the extension of an XML file.
 - 1.2 _____ attribute is used with <A> tag to specify the URL of link.
 - 1.3 XML attribute value should always be enclosed in _____.
 - 1.4 In HTML while creating a table, we cannot use background attribute with _____ tag.
 - 1.5 _____ is the software that gets automatically downloaded on your computer to track your activities without your knowledge.
 - 1.6 An XML document can have only one _____ element.
 - 1.7 _____ and _____ attributes make the image take proper proportions in a web browser.
 - 1.8 Unlike a computer virus a _____ can replicate itself automatically.
 - 1.9 A _____ is a person who attempts to maliciously hack computer or computer networks.
 - 1.10 A _____ is a copy of data used to screen lost or corrupted data.
2. State True and False: [10]
- 2.1 An XML document can have only limited number of child elements.
 - 2.2 A virus may corrupt or delete data on your computer.
 - 2.3 No value is specified with ALT attribute of tag.
 - 2.4 ROWSPAN attribute with <TABLE > tag is used to merge more than one cell row wise.
 - 2.5 Unsolicited bulk emails are called spam.
 - 2.6 ALIGN and V ALIGN are the attribute used with <TD> tag to set the alignment of data in a table.

2.7 BORDER is an attribute of <A> tag.

2.8 XML stands for Extensive Markup Language.

2.9 XML is case sensitive.

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

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]

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]

4.2 Differentiate between Hacker and Cracker [2]

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

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>
```

- 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

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

KHAO PIYO RESTAURANT

Collect information for

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



Menus 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 email id for contact us is abc@xyz.com

SECTION – B

7. Multiple Choice Questions (Choose most appropriate option) [16]

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

- SRC
- LINK
- CELLPADDING
- BOLD

- 7.2 To avoid problems while working with internet you should follow these precautions:
- a) Install anti-Virus on your computer
 - b) Take the back-up of your files regularly
 - c) Do not click on unknown links
 - d) All of the above
- 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) `< A HREF = "abc.html">`
- 7.4 Which HTML tag would be used to display power in expression $x^2+y=10$
- a) `<SUP>`
 - b) `<SUB>`
 - c) ``
 - d) `<P>`
- 7.5 Output of XML document can be viewed in a
- a) Word Processor
 - b) Web browser
 - c) Notepad
 - d) None of the above
- 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) Anti Virus
- 7.7 Choose the correct HTML code to create an email link?
- a) ``
 - b) ``
 - c) `<MAIL>xx@yy.com</MAIL>`
 - d) ``
- 7.8 Choose the correct HTML tag to make the text bold?
- a) ``

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

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

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

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

- a) <xmldocument>
- b) <7eleven>
- c) <phonenummer>
- d) <root>

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

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.

7.14 Choose the correct HTML tag for the largest heading?

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

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

7.16 Comments in XML documents are given by:

- a) <? _ _ _ _ >
- b) <! ---- !>
- c) <! ---- >
- d) </ _ _ _ _ >

MARKING SCHEME
FOUNDATION OF INFORMATION TECHNOLOGY
Class X (Term II)

Max Time: 3 hours

Max Marks: 80

SECTION – A

- 1. Fill in the blanks:** [10]
- 1.1 .xml
 - 1.2 href
 - 1.3 double quotes
 - 1.4 <TR>
 - 1.5 Spyware
 - 1.6 Root
 - 1.7 Height, Width
 - 1.8 Worm
 - 1.9 Cracker
 - 1.10 Backup
- (1 Mark for each correct fill in the blank)**
- 2. State True and False:** [10]
- 2.1 False
 - 2.2 True
 - 2.3 False
 - 2.4 True
 - 2.5 True
 - 2.6 True
 - 2.7 False
 - 2.8 False
 - 2.9 True
 - 2.10 True
- (1 Mark for correctly marking the statement as true or false)**
- 3. 10 tags that have been utilized in creating the above webpage along with their expansion and usage are as follows:**

1. <HTML> - It is a structural tag used to mark the beginning and end of an HTML document.
2. <BODY> - It is a structural tag that encloses all the visible content of a webpage.
3. <P> - It is a formatting tag used to mark the beginning of a new paragraph.
4. <U> - It is a formatting tag used to underline text on a webpage.
5. <CENTER> - It is a formatting tag used to centralize text on a webpage.
6. <H1> - It is a formatting tag used to mark text as biggest heading.
7. - It is a formatting tag used to add inline images on a webpage.
8. - It is a formatting tag used to add numbered lists on a webpage.
9. - It is a formatting tag used to mark list items in a numbered list on a webpage.
10. <A> - It is a formatting tag used to add hyperlinks on a webpage.

(½ mark for identifying each tag and 1 mark each for their usage)

4. Answer the following questions:

4.1 CD and DVD

(1 mark each for correctly naming the two data backup devices)

4.2 A hacker is a person who is proficient with computers and/or programming and knows all of the intricacies of a system. There is no illegality involved with being a hacker whereas a cracker is a hacker who uses his/her proficiency for personal gains outside of the law like: stealing data, changing bank accounts, distributing viruses etc. A cracker is a technical person who masters the art of breaking systems to hamper the system's security. A Hacker on the other hand breaks system to gain knowledge.

(2 marks for explaining the correct difference between the two)

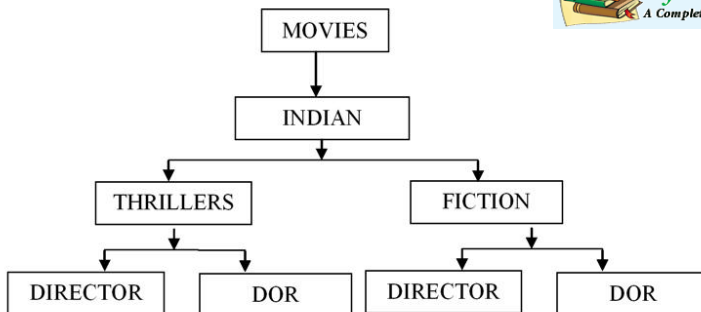
4.3 One specific software/tool for each of the given category are:

- a) Antivirus Software - Vipre, McAfee, Norton etc
- b) Data Recovery Tool - NTFS-reader, IsoBuster, VirtualLab Data Recovery Software etc
- c) Online Backup Tool - Dropbox, Back2zip, SyncBack etc
- d) Text Editor to create HTML pages - Notepad2, Notepad etc
- e) Open Source Web Browser - Mozilla Firefox, etc

(1 mark each for naming any correct software/tool)

5.

5.1



(5 marks for drawing the diagram correctly - 1 mark for each level and 1 mark for the flow lines)

5.2 <HTML>

<BODY>

<TABLE BORDER="2" BORDERCOLOR="BLACK">

<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 VALIGN=TOP>DALJIT</TD>

<TD ALIGN=RIGHT>C-41, PARK STREET, KOLKATA</TD>

<TD VALIGN=TOP>4-MAR-1988</TD>

</TR>

</TABLE>

</BODY>

/HTML>

(½ mark for correct usage of <HTML> tag)

(½ mark for correct usage of <TABLE> tag)

(1 mark each for correct usage of <TR>, <TH> and <TD> tags)

(½ mark for correct usage of ALIGN attribute)

```
6. <HTML>

<HEAD>

<TITLE>Eat healthy and live healthy</TITLE>

</HEAD>

<BODY LINK="Green" ALINK="Blue" VLINK="Red">

<CENTER>

<H1>

<FONT COLOR="maroon">KHAO PIYO RESTAURANT</FONT>

</H1>

</CENTER>

<IMG SRC="Restaurant.jpg" ALIGN="right" HEIGHT="150"
WIDTH="150">

<FONT COLOR="purple" SIZE="5">

Collect information for

<UL>

<LI><A HREF="one.html">menus</A>

<LI><A HREF="two.html">reservation</A>

<LI><A HREF="three.html">catering</A>

<LI><A HREF="four.html">tours</A>

</UL>

</font>

<font size ="5">

<CENTER>

<TABLE BORDER="2" BORDERCOLOR="blue" >

<font color ="blue"><CAPTION> Menus available are</CAPTION></font>
```

<TR>

<TD> 1

<TD> INDIAN

<TR>

<TD> 2

<TD> ITALIAN

<TR>

<TD> 3

<TD> CONTINENTAL

<TR>

<TD> 4

<TD> THAI

</TABLE>

</CENTER>

For further enquiries and reservations
<AHREF="mailto:abc@xyz.com">Contact Us

</BODY>

</HTML>

(½ mark for correct use of <HTML> tag)

(½ mark for correct use of <BODY> tag)

(½ mark for correct use of <TITLE> tag)

(1 mark for attributes of <BODY> tag)

(½ mark for correct use of <P> tag)

(½ mark for displaying the heading correctly in center)

(½ mark for correct use of tag with the ALIGN attribute)

(1 mark for changing table border to 2 pixel thick and border color blue)

(1 mark for giving table <CAPTION> with correct colour)

(1 mark for correctly making the table)

(1 mark for correctly making the bulleted list)

(1 mark for correct use of <A> tag for creating first 4 links)

(1 mark for correctly creating the email link)

SECTION - B

7. Multiple Choice Questions (Choose most appropriate option)

[16]

7.1 (c)

7.2 (d)

7.3 (d)

7.4 (a)

7.5 (b)

7.6 (a)

7.7 (b)

7.8 (d)

7.9 (c)

7.10 (a)

7.11 (b)

7.12 (b)

7.13 (d)

7.14 (a)

7.15 (d)

7.16 (c)

(1 Mark for each correct option)