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COMPUTER STUDIES I

*This paper consists of **TWO** sections, **Section - A** and **Section - B**. **Section - A** is **COMPULSORY**. You need to attempt only **FIVE** questions from **Section – B**. The intended marks for each question is given in brackets [].*

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SECTION A [50 MARKS] (Attempt ALL questions.)

Question 1.

[10 x 1 = 10]

Directions: *Each question in this section is followed by **four** possible choices of answers. Choose the correct answer and write it down in the space provided.*

i. “Slash – tag” indicates _____ tag.

- A Beginning of a pair
- B Container
- C End of a pair
- D Line break

Answer.....

ii. The syntax for paragraph tag is

- A <p> ...
- B ... </p>
- C <p>...</p>
- D <pa>...</pa>

Answer.....

iii. Which features of HTML breaks a window into rows and columns of multiple HTML document?

- A Line break
- B Form
- C Frame
- D Table

Answer.....

iv. If you have an image named img.gif, how can you use it as the submit button?

- A `<input type="image" src="img.gif">`
- B `<input type="button" src="img.gif">`
- C `<input type="submit" src="img.gif">`
- D `<input type="button" img src="img.gif">`

Answer.....

v. The appearance of individual cell can be made by inserting attributes in

- A `<TR>` or `<TD>`.
- B `<TD>` or `<TH>`.
- C `<TR>` or `<TH>`.
- D `<Table>` or `<TH>`.

Answer.....

vi. Which of the following is a visual HTML editor?

- A** Google chrome
- B** Internet explorer
- C** Mozilla firefox
- D** Microsoft Front page

Answer.....

vii. Which of the following is TRUE about LiveScript?

- A** Netscape Navigator 2.3 in 1992
- B** Netscape Navigator 2.2 in 1993
- C** Netscape Navigator 2.1 in 1994
- D** Netscape Navigator 2.0 in 1995

Answer.....

viii. A notepad is used to create and edit JavaScript programs. This software is

- A** a browser.
- B** a text editor.
- C** a visual editor.
- D** a compiler.

Answer.....

ix. What is the purpose of shift() method in an array?

- A** Adds one or more elements at the end of an array and returns its new length.
- B** Returns the last element of an array and removes it.
- C** Returns the first element of an array and removes it.
- D** Used to add or remove elements from an array.

Answer.....

x. The picture below shows a message produced by alert() method. This method belongs to



Good Morning!

- A** document object.
- B** history object.
- C** location object.
- D** window object.

Answer.....

Question 2.**[10 x 1 = 10]****Fill in the blanks with appropriate words or phrases.**

- i. HTML file is interpreted by
- ii. HREF is an attribute of tag.
- iii. Java is a compiled language whereas JavaScript is a language.
- iv. tag is used to leave a notes or explanation in a html document without displaying them in a browser window.
- v. In a HTML document allows user to send feedbacks.
- vi. When a website is opened, page begins with introductory page explaining the content of a web page and this page is called
- vii. Namgay added scripts in HTML document and if he loads the page, scripts in section will be executed first.
- viii. If a variable can have one of two given values then it is of the data type
- ix. If $i = 2 + 3$;, the value of “alert(i++);” statement will be
- x. Section divider is created by using tag.

Question 3.**[15 x 2 = 30]**

Directions: *While answering these questions, indicate briefly, your working and reasoning wherever required.*

- i. Write a HTML code to produce following output:
 - Class III
 - Sonam
 - Tashi

ii. What are the two attributes used for merging a cell in a table?

iii. Explain the relationship between domain name and server.

- iv. Write the difference between JavaScript statements and comments.

- v. Using appropriate JavaScript syntax, declare a new variable and initialize with the value Karma.

- vi. Write the difference between variable and object.

- vii. Write the function of following methods:
 - (a) abs() of Math object
 - (b) join() of an Array object

viii. Write HTML code to generate following form with an appropriate input type.

Email ID:

Password:

ix. Explain how it makes web designing dynamic with the use of DOM in a scripting language?

x. Write the difference between global and local variables.

- xi. Define property and method of an object?
- xii. What is a parameter or argument and state its use?
- xiii. Where in the HTML document, should the function be defined and why?
- xiv. Write HTML code to add bold caption-“My table” for a given table.
- xv. (a) Create an empty array named myArray.

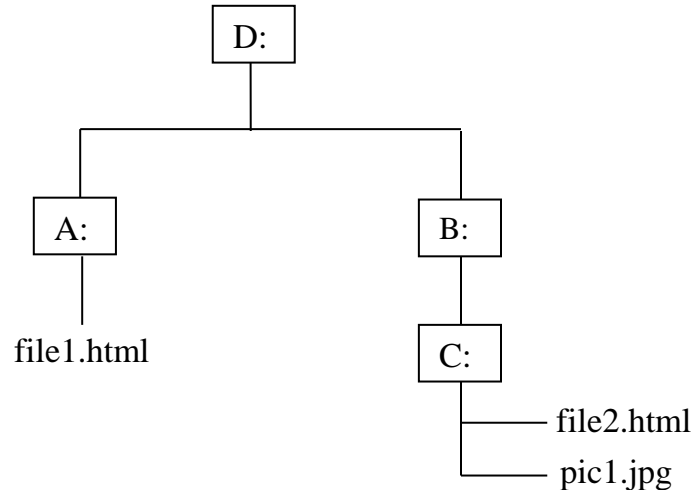
(b) Do you think the visual editor makes web designing easier? Why?

SECTION B [50 Marks]

Answer any FIVE from the following questions.

Question 4.

- i. Using the file structure below, answer the following questions:



- A. Write html code to insert pic1.jpg located in folder C in file1.html? [3]
- B. Write html code to add hyperlink in file2.html located in folder C addressed to file1.html located in folder A? [3]

ii. Write two differences between <td> and <th> tag? [2]

iii. Write the importance of having a title tag in a web document? Mention two areas where title of your web document will appear in a browser. [2]

Question 5.

- i. Write HTML code to generate following output:

[4]

C. Computer Studies
D. Economics
VI. Tashigang
VII. Samtse

- ii. Using HTML code, create a menu.html page (*which contains aboutus.html and gallery.html links*). Now split a frame.html page window in two equal vertical frames as shown below. When you click on the links in the left frame, the web pages should appear in the right frame.

[6]

Menu <u>About Us</u> <u>Gallery</u>	
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Question 6

- i. Write a tag to create the following: [3]
- A. Scrolling text
 - B. Deleted text
 - C. Mail to email link
- ii. Dorji has finished designing a website and he wants to host on a server. Which server do you suggest him, free server or paid server. Give FOUR reasons. [4]

- iii. From the given URL identify domain name, country code, top level domain, web server and protocol. [3]
- `http://www.tashicell.gov.bt.com`

Question 7

- i. Suppose you are a web master of Tashi company website. Proprietor has given you three images (image1, image2 and image3) and he wants image1 to appear when home page is loaded, image2 to appear when the cursor is rollover the image1 and image3 to appear when the cursor is removed from image2. Create the above effect. [5]

ii. Mention atleast three advantages of using interpreted languages. [3]

iii. Debug the following scripts and write down the correct scripts. [2]

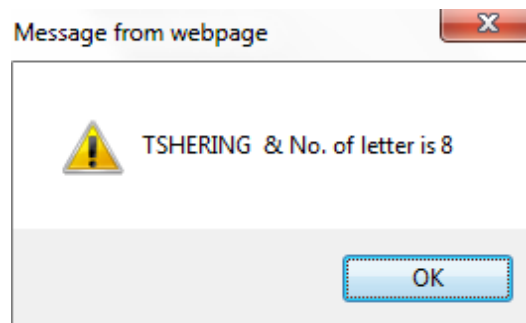
```
var ="High";  
Var b="School;  
document.Write(a+b);
```

Question 8

i. What is an infinite loop? Create an example of infinite loop, [3]

ii. Explain the uses of three parameters found in loop? [3]

- iii. Write a JavaScript code where a user has to enter his/her name in small letters and the output name is in capital letters and a name containing number of letters as shown below [4]



Question 9

- i. Write a JavaScript function ***“myFactorial”*** which calculates and returns the factorial of a number entered by the user?

(Hint: factorial of 2: 2! is 1x2=2 and 3! is 1x2x3=6 etc...)

[6]

- ii. Create a new window called “*myWindow*” with the following message-“My Window” in the document? [4]

Question 10

- i. Design a table with a width of 600 pixels having a row and a column. Now insert an image as shown in the diagram: [2]



ii. What is the use of break statement in JavaScript?

[1]

iii. Write a JavaScript code to calculate the circumference of a circle where user enters the radius and when clicked on *Calculate circumference button* the output is displayed in (*circumference of a circle is:*) textbox.
(Hint: *circumference of a circle*= $2\pi r$. Use property of math object for the value of π).

[7]

Enter radius of a circle:

Circumference of a circle is: cm