COMPUTER STUDIES
Paper 1
(THEORY)
(Reading Time: 15 minutes)
(Writing Time: Three hours)
(Maximum Marks: 100)

This paper consists of **TWO** sections: **Section A** and **Section B**. Section A is
COMPULSORY. Attempt **ANY FIVE** questions out of **SEVEN** questions from
Section B.
All working, including rough work should be done on the same sheet as the
rest of the answer.
The intended marks for questions or parts of questions are given in brackets [ ].

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 answer booklet provided.

   i.   HTML tag for which no corresponding close tag exists is called
        A   lonely tag.
        B   empty tag.
        C   emphasis tag.
        D   comment tag.

   ii.   Which one of the following is a correct HTML comment tag?
        A   <//--………..-->
        B   <!--………….-->
        C   <--……… --//>
        D   <-………….--!>

   iii.   The file extension for HTML document is
        A   .js
        B   .doc
        C   .htm
        D   .mdb

iv. The correct conditional statement for executing some codes if "i" is equal to is

    A   if i = 7.

    B   if (i= =7).

    C   if ("i" = 7).

    D   if " i" = =7.

v. Which one of the following cannot be used as HTML visual editor?
    A   Note pad
    B   Word pad
    C   Front page
    D   Adobe Photoshop

vi. Which of the following softwares cannot be used for browsing the internet?
    A   MS Windows
    B   Mozilla fire fox
    C   Internet explorer
    D   Netscape navigator

vii. Which one of the following is not a programming language used for designing the web?
    A   Java
    B   Perl
    C   For tan
    D   ActiveX

viii. JavaScript uses the following functions to display output **EXCEPT**
    A   Alert.
    B   Print.
    C   Prompt.
    D   Document write.

ix. Which of the following is executed first by a browser in the JavaScript?
    A   A script in the <title>.
    B   A script in the <head>.
    C   A script in the <body>.
    D   An event handler for a button.

x. The cell padding option creates a space between

   A   cells.

   B   rows.

   C   columns.

   D   rows and columns.

Question 2   **[10 x 1 = 10]**

Directions: *Fill in the blanks with appropriate words or phrases.*

i.   SGML stands for_____.

ii. The tag that tells a web browser where the HTML in the document begins and ends is

     called_____.

iii. The tag that forces a line break to occur in the web document is_____.

iv. The frame used to link in one frame to open a page in another frame on the same page

     is _____.

v.   The ARPANET stands for _____

vi. JavaScript was originally called _____, introduced by Netscape

     navigator 2.0 in 1995.

vii. The Script that you use to detect and respond to an event is called_____

viii. Making use of a function is referred to as _____ the function.

ix. _____ statement in JavaScript enables you to combine several tests of

     the same variable into a single block of statements.

x.   The abbreviation W3C stands for _____.

Question 3 [15x2=30]

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

i. Write the HTML code to create or display days of a week using ordered list.

ii. In visit us! , what is the function of <a> tag and href?.

iii. Write the HTML code to generate a table as shown below.

Discription	Size	Weight
Tiger	10 Feet	500 Kg
Elephant	15 Feet	10 Ton

iv. How is cell padding different from cell spacing?

v. Write html codes to display the text "Bhutan Board of Examinations" in bold and underlined.

vi. Differentiate between the web browser and the web server.

vii. Mention **TWO** advantages of using JavaScript over HTML?

viii. Differentiate between global variable and local variable.

ix. Myword = " this is my word ";
    document. Write (myword.length)
    Correct the syntax error in the above code and find the output of the above code?

x. Define a numeric array and find the length of that array using JavaScript.

xi. 'window.document.image.' is the DOM statement.
    a. In the above DOM which is the child object of the document object?
    b. In the above DOM which is the parent object of the document object?

xii. var radi=prompt("Type in the radius of a circle");
    var rounded=Math.PI;
    var circumference=2*rounded*radii;
    document. Write (circumference);

    a. Identify the Math object used in the above code.
    b. What output will be generated when the user enters 2 as the radius of a circle?

xiii.   Create a hyperlink using an image pic1.jpg to a document fl.html

xiv.   What do you understand by the term function? Write a JavaScript code to define a function.

xv.   Explain with an example, how object name and property name are separated in JavaScript

SECTION B [50 Marks]

Answer any FIVE from the following questions.

Question 4

(a) Write a complete HTML code to create the page as shown below. Use appropriate attributes and labels so that you get the same screenshot.   **[5]**

(b)

i.   What are empty tags in html? Give **TWO** examples of an empty tag.   **[3]**

ii. Write an html code to create a scrolling text for the given sentence:
    "***HTML is interesting***"   **[2]**

Question 5

(a) Write an html code to generate the form as shown below. Use different tags and the form attributes so as to get same screenshot. **[8]**

My Guest Feedback Form

Please let me know what you think of my Web pages!

What is your name?: [   ]

Check all that apply

☐ I really like your web site :
☐ One of the best best site I have seen:

Choose the one thing you love best about my pages

○ The inspiring marquee
○ Lots of pictures

Imagine my site as a book, video, select the number of copies you think it would sell.

```
Millon best
copy for sure!
$100,000+
(would be
```

[Click here to submit]   [Erase and startover]

(b) How are attributes different from that of tags in html? **[2]**

Question 6

(a) Briefly explain the following terms. **[4]**
   (i)   Intranet
   (ii)   Web page
   (iii) Relative address
   (iv)   VALIGN in table

(b) (I) Write a complete html code to insert the table with the following descriptions **[4]**

   (i) No. of rows= 4

   (ii) No. of columns= 4

   (iii) Background image = backgroundcolor.jpg

   (iv) Cell spacing = 6

   (v) Cell padding = 6

   (vi) Height = 100%

   (vii) Width = 60%
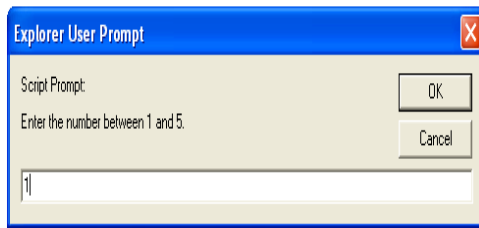
   (viii) Border= 1

(II) What are objects and how do you separate object names from the property names.

Question 7

(a)   Write a JavaScript code using array to store the names of five animals and display the list in sorted form. **[8]**

(b) How is the scripting language different from general programming language? **[2]**

Question 8

(a) Write a JavaScript code using switch statement that will display the screen shot given below as the user enters the number between 1 to 5. **[6]**

Explorer User Prompt	X
Script Prompt:	OK
Enter the number between 1 and 5.	Cancel
1	

Microsoft Internet Explorer	X
⚠ you entered one	
OK	

 (b) Write a JavaScript program to find the average for 6 numbers. **[4]**

Question 9

(a) i. Fill in the blanks with appropriate words or phrases. **[2]**

Event handler	Supporting Object	Event
onMouseOut	_____	The mouse moves off the element
_____	Image, Link	The mouse moves onto the element.

ii.   Mention any **THREE** good programming practices that you would apply while programming. **[3]**

(b) i. What is the purpose of using JavaScript comment? How is the comment put in the JavaScript? **[2]**

ii. Write a simple JavaScript code using for loop to display the screen shot as

shown below.

```
I love programing JavaScript
I love programing JavaScript
I love programing JavaScript
I love programing JavaScript
I love programing JavaScript
I love programing JavaScript
I love programing JavaScript
I love programing JavaScript
I love programing JavaScript
I love programing JavaScript
```

Question 10

(a) i. State a difference between do-while loop and while loop. **[2]**

ii. Study the JavaScript code given below and answer the following questions: **[3]**

```
<html><head>
    <script type="text/javascript">
    <!--
                    var x=1.25;
        function salaryIncrease( ){
        }
        var salary=12000* x;
        alert("Your new salary is"+ salary);
    //-->
    </script>
</head>    <body>
    <script type="text/javascript">
    <!--
        salaryIncrease( );
    //-->
    </script>
</body>
</html>
```

1. Identify the global variable from the above code.
2. Identify the local variable from the above code.
3. Identify the function called from the above code.

(b) Write a JavaScript code to test random number function that displays the screen shot as shown below. **[5]**

Math Example

```
Generated 1000 numbers...
Generated 2000 numbers...
Generated 3000 numbers...
Generated 4000 numbers...
Generated 5000 numbers...
```