



ཤེས་རིག་ལྷན་ཁག།
མུ་ཏིག་ཐང་འབྲིང་རིམ་སློབ་གྲྭ་ཤོང་མ།



**MOTITHANG HIGHER SECONDARY SCHOOL
THIMPHU THROMDE**

“Every child is **inspired** to learn and **empowered** with **wisdom** to excel in life”

TRIAL EXAMINATIONS 2020

**COMPUTER STUDIES Paper I
(THEORY)**

**Marks: 100
Time: 3.15 Hours**

Name: Class & Sec. Roll No.:

Invigilator's initial

For Teacher's Use Only										
Sections	Section A			Section B						
Questions	Qn 1	Qn 2	Qn 3	Qn 4	Qn 5	Qn 6	Qn 7	Qn 8	Qn 9	Qn 10
Marks	10	10	30	10	10	10	10	10	10	10
Marks Awarded										
Total Marks Awarded										
Teacher's Signature										

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The first **fifteen minutes** of the examination are for reading the paper only. Candidates **must NOT** start writing during this time
2. 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**.
3. All working, including rough work, should be done on the same sheet as the rest of the answer.
4. The intended marks for questions or parts of question are given in brackets [].

SECTION A [50 MARKS]
(Attempt ALL question)

Question 1

[10 X 1 =10]

Direction: *Each question in the section is followed by four possible choices of answers.*

Choose the correct answer and circle the corresponding letter in the question paper.

- A. Block of codes that performs a specific task and returns a value is
- a) Statement
 - b) Function
 - c) Array
 - d) Variable
- B. Which one of the following cannot be used as HTML editor?
- a) MS Word
 - b) Front page
 - c) Dreamweaver
 - d) Internet Explorer
- C. The submit button is a type of
- a) Object
 - b) Property
 - c) Method
 - d) Post
- D. In the expression ++, the value is increased by
- a) 0
 - b) 1
 - c) 2
 - d) 3
- E. Which one of the following attributes allows the user to choose more than one of several choices in HTML forms?
- a) Radio
 - b) Option
 - c) Select
 - d) Checkbox
- F. Making a web page as part of the web is called
- a) Web server
 - b) Website
 - c) Web hosting
 - d) Web crawler
- G. What will be the output of the following java script statement? `var show=5 - 2 * 3 + 12;`
- a) 21
 - b) 18
 - c) 11
 - d) 15
- H. The correct conditional statement for executing some codes if "i" is equal to 3 is
- a) if i=3
 - b) if(i==3)
 - c) if(i=3)
 - d) if "i"=3
- I. Method that gets the day of the month
- a) getDate()
 - b) getDay()
 - c) dateGet()
 - d) Dayget()

J. Function of the given HTML code

`Home` is to

- a) Decorate text with styles
- b) Load the location of links.
- c) Link from text to web page
- d) Remove underline from links.

Question 2

[10 X 1 = 10]

Direction: Fill in the blanks with appropriate words or phrases in the question booklet itself.

- A. To find the remainder we use _____ operator.
- B. Statement can retrieve and modify _____ variable from anywhere in a page.
- C. _____ protocol is used to upload and download files from the web.
- D. Sequence of zero or more characters that are enclosed by double or single quotes is referred to _____.
- E. The _____ tag is used to create links in web page.
- F. Java script is a _____ application.
- G. An _____ box is often used if you want to make sure information comes through to the user.
- H. Using _____ will make the table resize automatically to fit any size of the browser window.
- I. _____ statement escapes the loop.
- J. The _____ event occurs anytime the mouse pointer moves over a link or other object.

Question 3

[15 X 2 = 30]

Direction: While answering the questions, indicate briefly, your working and reasoning wherever required.

- i. In `Langchen`, what is the function of `<a>` tag and `href`?

ii. Write html codes to display the text “Gross National Happiness” in bold, italic and underlined.

iii. Write html codes to display the following form:

Name:

Sex: Male Female

iv. Differentiate between substring() and charAt() method with an example.

v. Mention TWO advantages of using JavaScript over HTML?

vi.

```
var a=5678;  
var total1=a + 1;  
var b="5678";  
var total2=b+1;
```

From the above JavaScript statements, what will be the output of total1 and total2?

vii. Write the complete JavaScript code to display the current date as a format shown below:

Date: 21/12/2020

viii. Distinguish **Ordered List** and **Unordered list** with the help of an example.

- ix. Using a *do-while loop* create a loop that will execute 10 times.
- x. Give ONE difference between a radio button and a check box used in a form.
- xi. Write a JavaScript function **average** to generate the average of two arguments passed to the function.
- xii. What is the main function of dot syntax? Give one example.

- xiii. How do you recognize the html tag? Give an example.

- xiv. Differentiate between property and method in JavaScript.

- xv. Convert the “256 Staff” string to a number using conversion function.

SECTION B

Direction: Attempt any FIVE questions

Question 4

- 1. Differentiate between an ‘empty tag’ and ‘container tags. Give an example each. [2]

- 2. Is JavaScript an interpreted language or a compiled language? Explain. [2]

3. Write the java script code to display a message on the status “**welcome to java script world**” when the user move the mouse pointer over a link “**Hyperlink**” and “**Thank you for using**” when the user move out the mouse pointer from a link. [4]

4. Compare between while loop and do while loop [2]

Question 5

1. Write HTML code to create the given form. Then by using getElementByName method in JavaScript add the two numbers entered by the user and output the total in its respective textbox when clicked on Calculate button. [4]

1st No:

2nd No:

Sum:

2. What are the four basic ways to process a form? [2]

3. Explain the difference between event and event handler with an example. [2]

4. Why do we have to validate a form in JavaScript? [2]

5.

Question 6

1. Write the JavaScript code to validate the username “class123” and password “user@1”, input by a user. The script should display the appropriate message using alert box if [4]
 - a. Username is incorrect
 - b. Password is incorrect
 - c. Both are incorrect
 - d. Both are correct

2. What is function in JavaScript and write its syntax? [2]

3. Write down the description of Math object methods sqrt() and round(). [2]

4. Write the java script code to generate the following output. [2]

25 is the square root of 5

16 is the square root of 4

9 is the square root of 3

4 is the square root of 2

1 is the square root of 1

Question 7

1. Explain the term marquee? How do you add a marquee to your HTML document with color and direction attributes? [2]

2. What is variable in JavaScript? Give two valid variable names. [2]

3. Write a function called **Multiplication** to display the multiplication table of any number entered by the user using for loop in JavaScript. [4]

4. Write down two rules to declare a valid variable. [2]

Question 8

1. Write JavaScript codes to display the factors of 10 using *for* loop. [2]

2. Explain the basic data types supported by JavaScript. [2]

3. Write a JavaScript code by letting user to enter his/her name in small letter and output it in capital letter and find out the number of letters in the name as show below: [2]

4. Write the HTML code to display the listing in the format as shown below. [4]

1. Bank of Bhutan
2. T – Bank
 - A. Sunday
 - B. Monday
 - i. 9:30 AM
 - ii. 10:30 AM
3. National Bank of Bhutan
4. Druk Panjab Bank

Question 10

1. Create a form using appropriate form controls as shown below. Write the java script function to display the form value in a new window of dimensions 400 pixels by 250 pixels, if all the entries are filled otherwise it should display a message “Incomplete information”.

[8]

Name:

Sex: Male Female

Date of Birth:

Contact Address:

^

v

2. Write the difference between inbuilt and user defined function. Give one example. [2]