COMPUTER STUDIES

Paper 2

(PRACTICAL)

(Reading Time: 15 minutes)

(Examination Session: Three hours)

(Maximum Marks: 100)

(Candidates are allotted additional time of 15 minutes for only reading the paper.

They must NOT start writing during this time.)

INSTRUCTIONS

1. This paper consists of **TWO** sections: section A and section B. Section A is on HTML. Section B covers both HTML and JavaScript.

2. Section A is compulsory. Section B contains **TWO** questions from which you are required to attempt only **ONE**.

3. All your work should be saved in a folder named with your actual index number on the Desktop. For example, 012190010001 this folder is named with the index number 012190010001. Your name or school name **CANNOT** be used as a folder name or file names.

4. You are allowed to use **ONLY Notepad** for this practical. Use of any other HTML editors will result in the cancellation of your work.

5. The intended marks for questions or parts of questions are given in brackets [ ].

6. Save your work from time to time to prevent loss of work due to unexpected power failure or hardware/software problem.

7. Make sure that your folder is handed over to the visiting examiner at the end of the examination.

8. **DO NOT** leave the examination hall before you have made sure that you have answered all the required number of questions.

SECTION A [50 MARKS]
ANSWER **ALL** QUESTION

Question 1

Refer the figure given below for a fictional COVID-19 information site and answer the questions that follow.
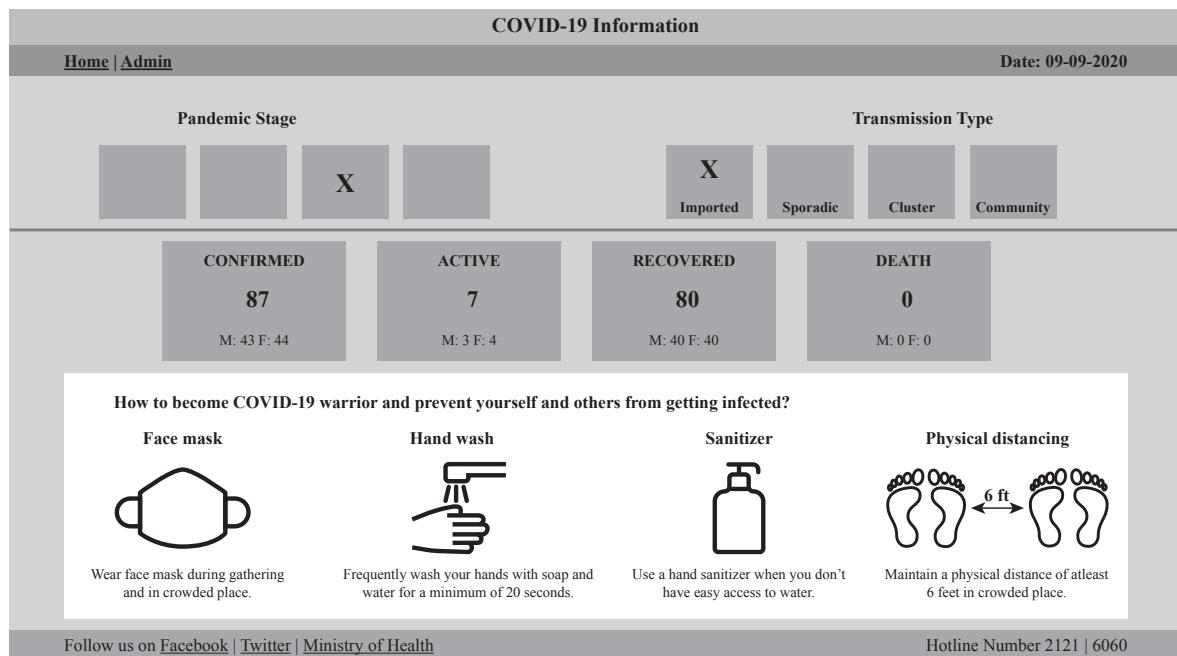

Figure 1

a)	Save the webpage as **question1.html**.	[1]
b)	Use table to layout the webpage as shown in Figure 1.	[5]
c)	Header section should contain "COVID-19 Information" with appropriate formatting and alignment.	[2]
d)	Navigation bar should also include the date and appropriate background colour as shown in Figure 1.	[3]
e)	Include sections for pandemic stages and transmission types. Information about the pandemic stage of the country and COVID-19 cases (CONFIRMED, ACTIVE, RECOVERED and DEATH) are colour coded in sequence (from left to right) as follows: 1) Pandemic stage: Green, Yellow, Orange and Red. 2) COVID-19 cases: Orange, Yellow, Green and Red.	[10]
f)	Include COVID-19 status in terms of CONFIRMED, ACTIVE, RECOVERED and DEATH cases as shown in Figure 1.	[10]
g)	Include a section for the dissemination of information on the prevention of COVID-19 disease as shown in Figure 1. You can create or use available image/s with appropriate dimension for the webpage.	[12]

h)   Include footer as shown in Figure 1.   **[5]**

i)   Include comments and apply proper indentations in the codes.   **[2]**

SECTION B [50 MARKS]
ATTEMPT **ANY ONE** QUESTION

Question 2

The COVID-19 status for the fictional site should be updated dynamically using JavaScript
on the webpage. It includes the current date on the navigation bar, cross mark on pandemic
stage and transmission type, and total number as well as the count of male and female of
COVID-19 cases for CONFIRMED, ACTIVE, RECOVERED and DEATH as shown in
the figure below.
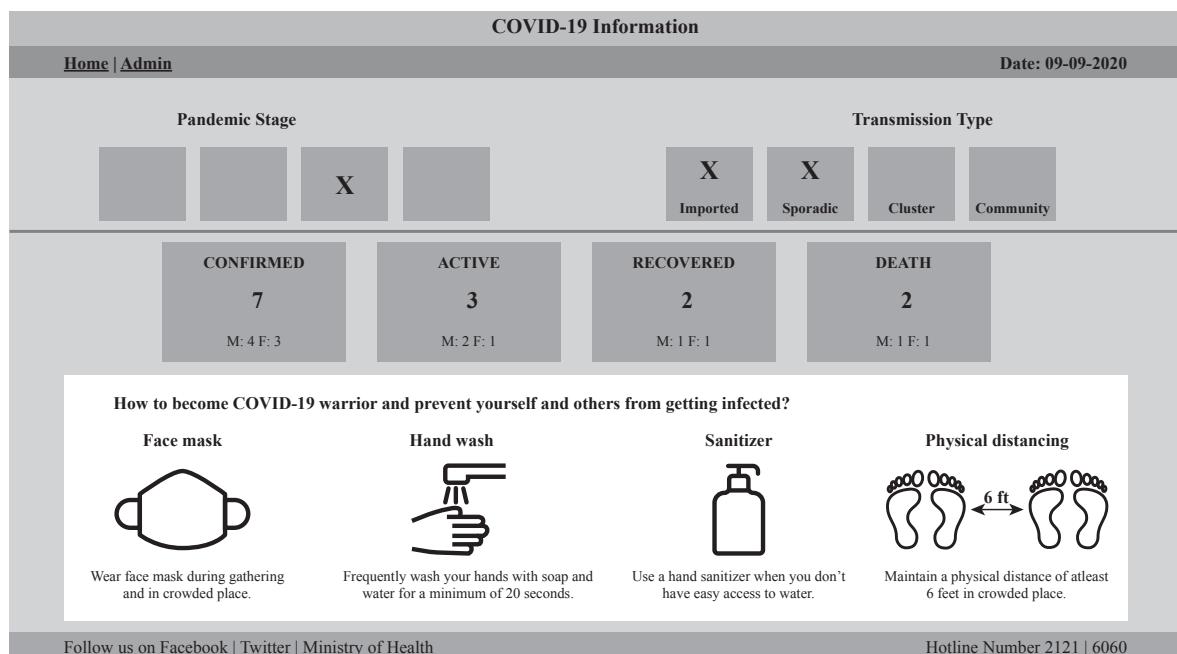
Figure 2

a)   Using **question1.html** as the template create another webpage with the title "Status   **[1]**
Update". Save the webpage as **question2.html**.

b)   Create a JavaScript file as **question2.js** and use it for question2.html. Script should   **[2]**
contain the following **TWO** functions.

    1)   A function **current_date()** to generate current date. It should be called using   **[3]**
        onload event handler in question2.html.

    2)   A function **status_update()** to perform the following tasks.   **[2]**

    i.   Get the number of confirmed cases in terms of male and female.   **[2]**

    ii.   Calculate the total number of confirmed cases.   **[1]**

    iii. Get the number of deaths, recovered cases, type of transmission (Imported,   **[6]**
        Sporadic, Cluster and Community) only if the total confirmed case is not zero.

iv.   Calculate active cases of male and female, total deaths, total recovered, and total active cases. **[5]**

v.   If the number of confirmed cases is zero then set CONFIRMED, ACTIVE, RECOVERED and DEATH status to zero including the count of male and female. There should be a cross mark ONLY on the Green section under Pandemic Stage. **[6]**

vi.   If the total number of confirmed cases is less than 5 and transmission type is Imported, display cross marks on the Imported section under Transmission Type and Yellow section under Pandemic Stage. **[6]**

vii. If the total number confirmed cases is greater than 5 and transmission type is Sporadic, display cross marks on Imported and Sporadic sections under Transmission Type and Orange section under Pandemic Stage. **[6½]**

viii. If the total number of confirmed cases is greater than 5 and transmission type is Community, display cross marks on Imported, Sporadic, Cluster and Community sections under Transmission Type and on Red section under Pandemic Stage. **[7½]**

ix.   This function should be called when the user clicks on the "Admin" link in the navigation bar. **[2]**

Question 3

The COVID-19 status for a fictional site should be updated dynamically using JavaScript on the webpage. It includes the current date on the navigation bar, cross mark on pandemic stage and transmission type, and total number as well as the count of male and female of COVID-19 cases for CONFIRMED, ACTIVE, RECOVERED and DEATH as shown in the figure below.
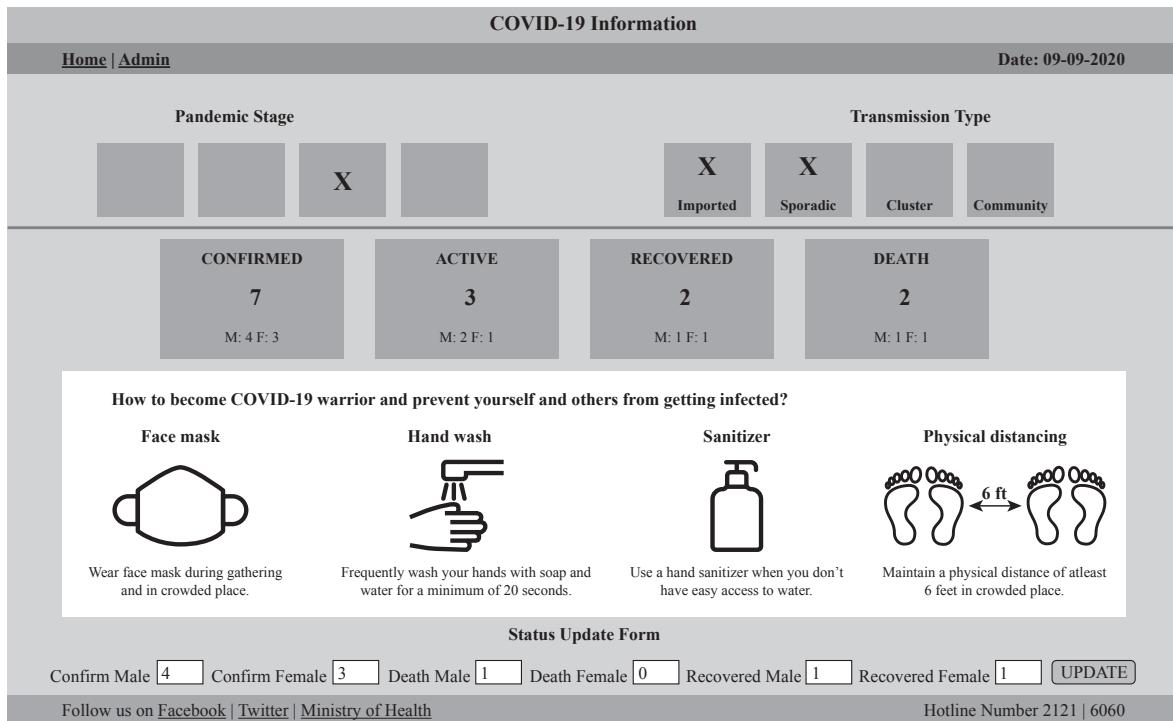
Figure 3

a) Using **question1.html** as the template create another webpage with the title "Status Update". Save the webpage as **question3.html**. **[1]**

b) Add a form to **question3.html** as shown in Figure 3. **[5]**

c) Create an external JavaScript file as **question3.js** and use it for question3.html. Script should contain the following **TWO** functions. **[2½]**

   1) A function **current_date()** to generate current date. It should be called using onload event handler in question2.html. **[3½]**

   2) A function **status_update()** to perform the following tasks. **[2]**

   i. Get the number of confirmed cases, deaths and recovered in terms of male and female. **[6]**

   ii. Calculate the total number of confirmed cases. **[1]**

   iii. Calculate active cases of male and female, total deaths, total recovered, and total active cases. **[6]**

   iv. If the number of confirmed cases is zero then update CONFIRMED, ACTIVE, RECOVERED and DEATH status. There should not be any cross mark on **[8]**

Transmission Type. However, there should be a cross mark on the Green section under Pandemic Stage.

v.   If the total confirmed case is greater than 0 but less than 5 then update the status including cross marks on the Imported section under Transmission Type and Yellow section under Pandemic Stage.   **[6]**

vi. If the total confirmed case is greater than 5 then update the status including cross marks on Imported, Sporadic, Cluster, Community sections under Transmission Type and Orange section under Pandemic Stage.   **[7]**

vii. This function should be called when the user clicks on the UPDATE button of the form.   **[2]**

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