



SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

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June 11 - 0035

Higher National Diploma in Information Technology

First Year, First Semester Examination – 2021

HNDIT 1022-Web Design

Instructions for Candidates:

Answer any (5) questions.

No. of questions: 06

No. of pages: 06

Time: Three (03) hours

Q1.

A web browser is software application for retrieving, presenting and traversing information resource on the web.

1) What is Internet? *internet is a one network.* [02 Marks]

2) Who is the inventor of World Wide Web? List down his two other inventions. [04 Marks]

3) What did you understand by browser capability? [06 Marks]

4) Fill in the blanks with suitable words from the given list. [08 Marks]

(Web Hosting, Web browser, Web servers, HTTP, File Transfer Protocol, Mail, Client, Web publishing, Hypertext, HTTPS, Universal Resource Locator, Hyperlink, Uniform Resource Locator, Bluehost, Internet)

HTTP a. *FTP* is the standard for transferring encrypted data on the web

web brow b. is the software application for retrieving, presenting, and traversing information resources on the World Wide Web

mail c. DreamHost is one of theservice

FTP d. is a network protocol for transmitting files between computers over Transmission Control Protocol/Internet Protocol (TCP/IP) connections

web hosting e. includes building and uploading websites, updating the associated webpages, and posting content to these webpages online.

url f. URL means

Client g. is a reference to a document that the reader can directly follow, or that is followed automatically

web server h. handle access permission, execute programs, keep track of directories and files and communicate with client computers.

[Total 20 Marks]

✓ Q2.

Hyper text Markup language.

- 1) What does HTML stand for? [02 Marks]
- 2) What are the main four tags included in every HTML document? [04 Marks]
- 3) Write the html code to create the following list. [06 Marks]
(Hint-Font sizes are mentioned bellow)

Nested Lists (h1 size)

Popular Cat Names (h2 size)

• UK (h3 size)

1. Tikky
2. Rokky
3. Max
4. Smokey
5. Sam

• Australia (h3 size)

1. Oscar
2. Max
3. Nile
4. Sam
5. Misty

Handwritten HTML code for the nested lists:

```
<ul type="circle">
  <li><h3>UK</h3></li>
  <li><h3>Australia</h3></li>
</ul>
```

circle.

- 4) What is the output of the following? [08 Marks]

```
<!doctype html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>tableSpan.html</title>
</head>
<body>
<h1>Spanning rows and columns</h1>
<table border = "1">
<caption><p>My Daily Schedule</p></caption>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
```

```

<tr>
<th>Breakfast</th>
<td>In rest</td>
<td>with friend</td>
<td>In rest</td>
<td>in rest</td>
<td>in rest</td>
</tr>
<tr>
<th>Morning</th>
<td colspan = "2">Design traps</td>
<td colspan = "3">Improve Hideout</td>
</tr>
<tr>
<th>Afternoon</th>
<td>train minions</td>
<td>train minions</td>
<td>train minions</td>
<td>train minions</td>
<td rowspan = "2">world domination</td>
</tr>
<tr>
<th>Evening</th>
<td>manaical laughter</td>
<td>manaical laughter</td>
<td>manaical laughter</td>
<td>manaical laughter</td>
</tr>
</table>
</body>
</html>

```

Q3.

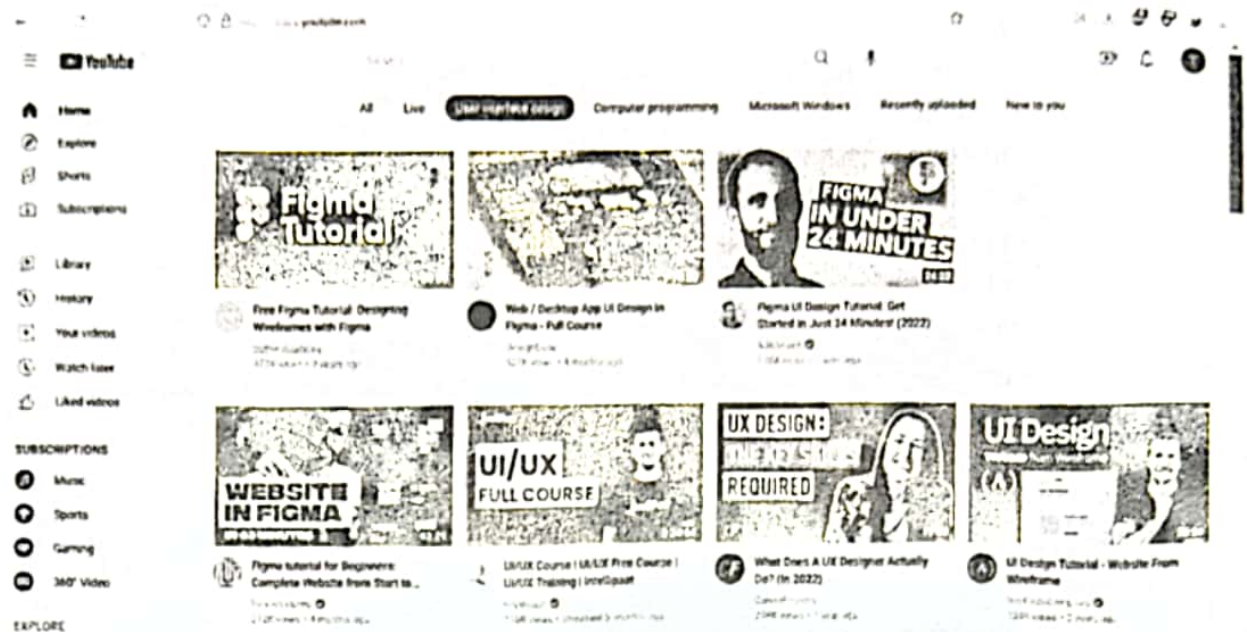
- 1) What is wireframe?
- 2) Why designer use wireframe?
- 3) Explain any three standard elements on wireframe.
- 4) Sketch the wireframe design for the given web page.

Wireframe is a sketch of your website any kind of design elements or developments are takes place.

[Total 20 Marks]

[02 Marks]
[04 Marks]
[06 Marks]
[08 Marks]

Sketches
Low fidelity
High fidelity



[Total 20 Marks]

CQ4.

inline, internal, External

- 1) What are the different ways to insert a CSS into your web content? [02 Marks]
- 2) What code would you use to create a style sheet to specify 30-point Arial italic headings(h1) and all other text in 10-point Times New Roman? [06 Marks]
- 3) If you saved the separate style sheet you made for Question 2 as myownstyle.css, how would you apply it to a web page named homepage.html? [04 Marks]
- 4) Consider the below output and fill the blanks in the given internal stylesheet. [08 Marks]

Artificial Intelligence

Artificial Intelligence (AI) is a trending technology that takes first place in the list of top 10 latest technologies in computer science of 2021. AI technology involves machine intelligence, which is as smart and intelligent as the human brain and reacts like humans.

Today, AI contributes to society numerously, for example, in the form of virtual assistants such as Google Assistant, Siri, Cortana, and Alexa.

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font-family: Arial, italic;
font-size: 30px;
font-family: Times New Roman;
font-size: 10px;

<style sheet = "text/css" href = "homepage.html">

name shud be letter
case sensitive.
name shud be small letter

Q5.

- 1) Mention two uses of client-side scripting. [02 Marks]
- 2) Write down two specific rules you must follow when choosing a variable name in JavaScript programming. [02 Marks]
- 3) Write the output of the following code snippet in javascript. [06 Marks]

```
<script language="javascript" type="text/javascript">
names = new Array("Henry J. Tillman", "Sherlock Holmes");
var y=0;
var visitor="Dhav";
document.write(names[0].substring(0,5));
document.write("<br>");
for(var x=0;x<=10;x++){
    y=Number(y)+Number(x);
}
document.write("Answer is : "+y);
greeting=(visitor=="PRES")?"Dear Hon President ":"Dear ";
document.write("<br>"+ "Good morning "+greeting);
</script>
```

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
55

4)

- I. Write the html code to display the following form. [05 Marks]

Username:

Password:

= document.getElementById("").value

- II. Write the JavaScript function to validate the username and password. The username can't be empty and password can't be less than 6 characters long.

(password.length <= 6)

[05 Marks]

[Total 20 Marks]

Q6.

- 1) What are the features of web hosting provider? [02 Marks]
- 2) How many files would you need to store on a web server to produce a single web page with some text and two images on it? Mention those files. [04 Marks]
- 3) List three ways to improve your Site's Ranking (SEO). [06 Marks]
- 4) How to create web gallery using photoshop? [08 Marks]

[Total 20 Marks]