



# SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

**Higher National Diploma in Information Technology**  
**Second Year, Second Semester Examination – 2017**  
**HNDIT2413 – Web Application Development**

Instructions for Candidates:

**Answer five (05) questions.**

**All questions carry equal marks.**

No. of questions: 06

No. of pages : 08

Time : Three (03) hours

1)

i. What does WWW stand for? Define it.

[02 Marks]

ii. Write HTML codes to create following table by considering the given formatting.

Table caption : Student Marks

Table alignment : Center (horizontally)

Table header rows : Shaded in blue

[10 Marks]

Student Marks

Student	Subject		Total
	IT	English	
A	19	39	
B	19	39	

iii. Differentiate between web browser and search engine by giving two examples for each.

[04 Marks]

iv. Explain the Client Server Architecture.

[04 Marks]

(Total 20 Marks)

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2)

i. What does CSS stand for? Mention 02 ways of inserting CSS in a web page.

[02 Marks]

ii. List down three differences between Internal CSS and External CSS.

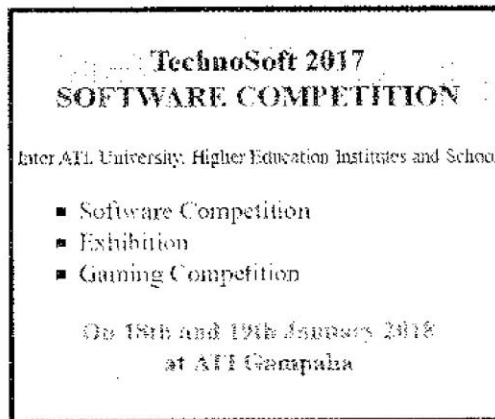
[03 Marks]

iii. What are the advantages of using CSS for a web site?

[03 Marks]

iv. The following banner is created by using a Banner.html.

[12 Marks]



Fill in the blanks of the following banner.html which is created by using the following instructions.

**Instructions for formatting:**

- ✓ Technosoft banner has a background color, a border and exact width and height
- ✓ Banner header ("TechnoSoft 2017 SOFTWARE COMPETITION") text is in blue color and has a background color
- ✓ "On 18th and 19th January 2018" is a bold text in red color.

```
Banner.html
<html>
<head>
<.....(1).....type="text/css">
h3{
.....(2)..... :blue;
.....(3)..... :verdana;
.....(4).....: #abfae1;
text-align:.....(5).....;
}
p{
.....(6)..... :12px;
text-align:center;
}
```

```

Div.container{
    .....(7).....:300;
    Height:250;
    .....(8).....: 3px solid;
    .....(9).....: #fafbe5;
}

ul{
    .....(10).....:square;
}
</style>

</head>
<body>
<div class="container">
<h3> TechnoSoft 2017 <br> SOFTWARE COMPETITION</h3>
<p> Inter ATI, University, Higher Education Institutes and School</p>
<ul>
    <li>Software Competition</li>
    <li>Exhibition</li>
    <li>Gaming Competition</li>
</ul>

<div .....(11).....="color:red; ....(12).....:bold; text-align:center;">On 18th and 19th
January 2018<br>
at ATI Gampaha</p></div>
</div>
</body>

</html>

```

(Total 20 Marks)

3)

- i. Differentiate between Static and Dynamic websites.
- ii. Define the followings and give two examples for each.
  - a. client-side scripting
  - b. Server-side scripting

[02 Marks]

[04 Marks]

iii. Write the output of the following JavaScript codes.

a.

```
<script language="javascript" type="text/javascript">
for(i=1;i<9;i++) {
if(i==4) Continue;
document.write(i);
}
</script>
```

[02 Marks]

b.

```
<script language="javascript" type="text/javascript">
var x="Welcome you all!";
document.write(x);
document.write("<br>");
document.write(x.length+"<br>");
document.write(x.toUpperCase());
document.write("<br>");
document.write(x+=" to 2018");
</script>
```

[04 Marks]

iv. Write an html program to create the given form and JavaScript function to check the following.

- Only numbers between 1 and 100 can be inserted. When an invalid number is entered, the message must be appeared as "Invalid input". If it is a valid number, the message must be appeared as "Valid input".
- The function should be called on the button "Validate".

Text box

Please enter a number between 1 and 100 here:

Button

[08 Marks]

(Total 20 marks)

4)

i. What does PHP stand for and the latest version of PHP?

[02 Marks]

ii. What is the difference between "Switch" and "If" Statements?

[02 Marks]

iii. Write the output of the following PHP codes.

a.

```
<?php
$color = "red";
echo "My car is " . $color . "<br>";
echo "My house is " . $COLOR . "<br>";
echo "My boat is " . $coLOR . "<br>";
echo gettype ($color);
?>
```

[02 Marks]

b.

```
<?php
$first = array("a", "b", "c");
$second = array(1,2,3);
$third = array_merge( $first, $second );
foreach ( $third as $val )
{
    print "$val<BR>";
}
?>
```

[03 Marks]

c. <?php

```
function add_subt($val1,$val2){
    $add = $val1 + $val2;
    $sub = $val1 - $val2;
    $result = array ($add,$sub);
    return $result;
}
$func_result = add_subt(12,5);
echo "Add: " . $func_result [0]. "</br>";
echo "Subt: " . $func_result [1]. "</br>";
?>
```

[03 Marks]



- d. Write a php code segment to create an array which should hold the student's name and their age as the given below.

Saman 18  
Kasun 20  
Nisal 23  
Kamal 25

[04 Marks]

- e. Write a proper PHP statement to generate the decision of wrist watch for a given price.

<u>Price criteria</u>	<u>Decision</u>
<=1000	Low Price
<=5000	Average Price
>5000	High Price

[04 Marks]

(Total 20 Marks)

5)

- Define the term "cookie" and how to set the cookie in PHP.
- "PHP is an open source software". Justify your answer.
- Consider the following form

[03 Marks]

[04 Marks]

**Marks - Semester II**

Student Reg. No. :

Student Name :

Subjects:

PC Application :

DBMS :

Web Development :

Computer Hardware :

Submit

- a. Write an html program to create the above form. [08 Marks]
- b. "When you Click on the submit button, the student name, total mark and the average mark should be displayed."  
Write a PHP program to display the above result.

[05 Marks]

(Total 20 Marks)

6) This form is used to store marks of the students in ABC Institute.

Marks - Semester II	
Student Reg. No.	STU0001
Student Name	K.P. Nimalika
Subjects:	
PC Application	25
DBMS	72
Web Development	59
Computer Hardware	70
<input type="button" value="Submit"/>	

**Instruction**

- DBMS : MySQL
- Web Programming Language : PHP
- Database Server : localhost
- User Name : Manager
- Password : abc123
- Database Name : abcStudent
- Table Name : marks



The following text box names are used for creating above form.

Text box	Name
Student Reg. No	stuRegNo
Student Name	stuName
PC Application	pcApp
DBMS	dbms
Web Development	webDev
Computer Hardware	comHW

Write PHP code fragments to do the following.

- i. Create the connection to MySQL Database. [04 Marks]
- ii. Insert the above data set in the form to the marks table.  
[Hint: table structure- Marks (stno, stname, sb1, sb2, sb3, sb4)] [05 Marks]
- iii. Change the Student name to "K.K. Sumith " whose student number is "STU\_0015". [05 Marks]
- iv. Show all the details of STU\_0005 (student number) in the form. [06 Marks]

(Total 20 Marks)



