

(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 - 2016 HNDIT2413- Web Application Development

Instructions for Candidates:

No. of questions: 06

Answer any five (05) questions.

No. of pages : 08

Time

: Three (03) hours

1)

iv.

What do the following acronyms stand for? i.

[02 Marks]

a.HTTP

b.W3C

Write three main functions of client server system. ii.

[03 Marks]

Briefly explain the difference between ordered and unordered list with a suitable iii. example. [05 Marks]

Write the HTML code for the following output.

[10 Marks]

Name		Telephone	Preffered ATI
Andrew	092-2345657	071-5557 <b>78</b> 5 077-7113478	ATI-Jaffna
WINGEN.			ATI-Vavniya
			ATI-Trincomalee
Ferdinanze			ATI-Galle
			ATI-Tangalle

2)

What is meant by CSS? Briefly explain it. i.

[02 Marks]

Give (03) three ways of inserting styles in to HTML page. ii. iii.

[03 Marks]

What are the effects you can get by using the following styles in a HTML page?

a.Color

b.Padding

c. margin

d.Font-style

e. List-style-type

[05 Marks]

By considering the following web page and its HTML code, complete the following iv. CSS style definitions by filling the missing code segments at the given placeholders to get the following appearance of the HTML page.

[10 Marks]



## **Technosoft 2017**

### Advanced Technological Institute -Gampaha

## Sri Lanka Institute of Advanced Technological Education

#### Category 01

#### Category 02

#### Category 03

#### Web Application

#### Technosoft 2015 at a software competition organized under the Higher Network Digitions in Information Technology (HNOIT) program in SLATE. This as conducted by the Department of Information Technology of one ATI aimpailly. This is does of the best opportunities to impacts to the organization for study.

#### Robotics

Technosoft 2015 as a softmare congression opportuned under the Brighter historical Displaced in Information Technology (TEXIX) program in SLIATE. This is positive by the Department of Information Technology of our NT instance. Shis is not of the best opportunities to unputive reflorate unjuniorizing knowledge

#### Desktop Application

Technoped 2013 is a softwater characteristic computer trace the Higher National Duplinian is distinguistics obtained by (HNDIT) programs in MIATE. This is established by the Department of Individualist Technology of this ATI annially. This is one of the best opportunities to improve well ware engineering knowledge of the students.

### Index.html

<html>

</head>

<body>

<h1>Technosoft 2017</h1>

<h2>Advanced Technological Institute -Gampaha</h2>

<h3>Sri Lanka Institute of Advanced Technological Education</h3>

<hr>

<div class="cat1">

<h3> Category 01 </h3>

<h3> Web Application </h3>

Technosoft 2015 is a software competition organized under the Higher

National Diploma in Information Technology (HNDIT) program in SLIATE.

</div>

<div class="cat2">

<h3> Category 02 </h3>

<h3> Robotics </h3>

Technosoft 2015 is a software competition organized under the Higher

National Diploma in Information Technology (HNDIT) program in SLIATE.

</div>

<div class="cat3">

<h3> Category 03 </h3>

<h3> Desktop Application </h3>

Technosoft 2015 is a software competition organized under the Higher

National Diploma in Information Technology (HNDIT) program in SLIATE.

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```
</div>
</body>
</html>
```

## Style.css

```
body{
                                 //set full width of the (any) display for webpage
      (1)....;
                                 //set margin 0px
      (2)....;
                                 // set center alignment for body text
      (3).....;
h1 {
h2{
                                     // set font size to 30px
      (4).....;
h3 {
       }
hr{
                                       // set horizontal line height to 10
      (5)....;
div{
      (6).....; //set bottom padding 30 px.
       (7).....; //set width of div section to 30.5% from whole display
       float:left;
       position: relative;
       min-height:1px;
       (8).....;} // set 5px margin in left side of div section
.cat1 {
                           //set background color of div section (cat1) to #d9edf7
       (10).....; } //border color of div section (cat1) to #bce8f1
.cat2 {
            }
.cat3 {
```

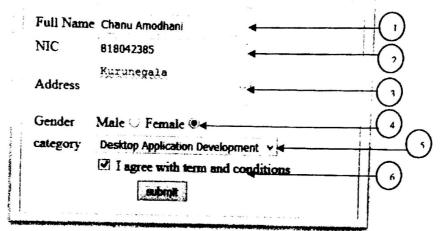
```
i. Give (02) two examples for client side scripting language. [02 Marks]
ii. Write (03) three usages of the client side scripting language. [03 Marks]
iii. Write a JavaScript code segment to calculate and display the summation of 1 to 100.
[05 Marks]
```

- iv. Considering the following HTML form, write one JavaScript function for following data validation.
  - a. Full Name is not empty
  - b. Nine (09) digits in NIC number

[10 Marks]

# Technosoft-2017

## **Application Form**



No.	Element	Attribute values	
		Name	id
	Text box	fullname nic	
2	Text Box		
3	Text Area	address	
4	Radio Button	gender	
(3)	List box	category	
6	Check box	agree	
	form frmtechno		chno

4)

i. Define the server side scripting language.

[02 Marks]

ii. Briefly explain the difference of the outputs of the following two programs.

[03 Marks]

a.

```
<?php
$x = 5;
while($x < 4) {
  echo "The number is: $x < br>";
  $x++;
}
?>
```

b.

```
<?php
$x = 5;
do {
   echo "The number is: $x <br>";
   $x++;
} while ($x < 4);
?>
```

iii. Write the output of following PHP script.

[05 Marks]

a.

```
<?php
$colors = array("red", "green", "blue");
foreach ($colors as $value) {
  echo strtoupper("$value")."<br>";
}
?>
```

iv. Write a PHP script to calculate factorial value for a given number using while loop. (Hint. Factorial value of 5 = 5\*4\*3\*2\*1) [10 Marks]

5)

```
    i. Briefly explain the usage of cookies and sessions in a web page.
    ii. Write (03) three differences between GET and POST methods.
    iii. Write the output of the following PHP script.
```

```
<?php
              class vehicle
                     var $brand;
                     var $model;
                     var $colour;
                     function vehicle($b,$m,$c)
                            $this->brand = $b;
                            $this->model = $m;
                            $this->colour = $c;
                     function start(){
       echo $this->colour." Coloured ".$this->brand." ".$this->model." is
       started...";
                     }
       }
              $carone = new vehicle("Nissan","Car","Brown");
              $carone->start();
?>
```

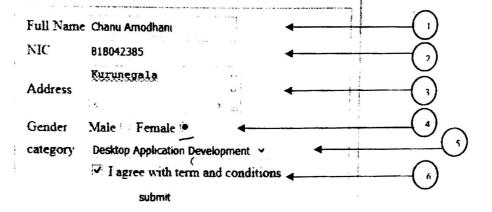
iv. Write a PHP function to display the inserted data, by considering the following HTML form.

(Hint: Function name should be funcDisplay())

[10 Marks]

# Technosoft-2017

# **Application Form**



No.	Element	Attribute values		
		Name	id	
1	Text box	fullname		
2	Text Box	nic		
3	Text Area	address		
4	Radio Button	gender		
(3)	List box	category		
6	Check box	ag	ree	
	Form	frmte	frmtechno	

6) This form is used to store the Technosoft application data in the MYSQL database server using PHP.

	<b>Application Form</b>
uli Name	4
NIC	t
Address	Type your text
<del>jende</del> r	Male Female
ategory	Web Development   I agree with term and conditions

Database Server = Localhost

Username = ATIGAMPAHA

Password = ATI@2017

Database name = TECHNOSOFT

Table Name = TECHNO

- i. Write the code segment to create the connection to MYSQL database. [02 Marks]
- ii. Write the code segment to check the connection and display any MYSQL connection error. [03 Marks]
- iii. Write the complete code segment to insert a record to the table. [05 Marks]
- iv. Write the complete code segment to display the database record of applicant's NIC number 81804238 in the form. [10 Marks]