

## 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 First Year, First Semester Examination – 2018 HNDIT1106 – Web Development

Instru	ictions f	for Candidates: No. of questions	: 05
Answ	er four	r (04) questions <b>including question 01</b> No. of pages	: 05 (02) hours
All q	uestions	ns carry equal marks. Time : Two (0	
Quest	tion 01		
(i)	Fill in	in the blanks with the most suitable answer from the list given below.	
	(a)	is the first network which used the packet-switching conce	pt for
		the first time.	
	(b)	addresses are unique numeric identifiers that are neede	d by
		every device that connects to the internet.	
	(c)	Dynamic websites are expensive to be maintained over	static
		websites when the sites need frequent changes.	
	(d)	A web site comprises the perpetual collective work of	many
		authors.	
	(e)	Social networking sites belong to the	
	(f)	is the most suitable Internet connectivity option for	or an
		organization like large-scale bank.	
	(g)	Bandwidth is measured in	
	(h)	will appear to be useful software but will actually damage	when
		installed or run on your computer.	
	(i)	Evil websites pretend to be trusted websites, are used in	
	(j)	In a "Form" of a web page,are used when more than one o	ption
		is required to be selected.	
(pps,	bps, we	veb 1.0, web 2.0, Phishing, static, collaborative, less, more, spyware, trojans	, , IP,
TCP,	Interne	et, ARPANET, NSF, checkboxes, radio buttons, ADSL, leased line, Wi-Fi)	

(2x10=20 marks)

(ii)	Selec	t the most suitable answer.			
	(a)	Which of the following is a correct IP address?			
		i) 92.168.15 ii) 172.16.254.1			
		iii) 258.12.1.0 iv) 92.168.15.400			
	(b)	Which of the following is NOT an example for a top-level domain	1?		
		i) .lk ii) .com iii) .mil iv) .b	ous		
	(c)	is NOT a wireless connectivity option	1.		
		i) Wi-Fi ii) Fiber Optic iii) Wi-Max iv) Sa	atellite		
	(d) Which of the following is most difficult to implement in an E-comme site?				
		i) Interactivity ii) Richness			
		iii) 100% security iv) Information density			
	(e)	is not an example for a malicious software.			
		i) Worms ii) Virus iii) Trojans iv) Anti-Viru	ıs		
			(01  x5 = 05)		
Quest (i)	t <b>ion 02</b> Write	e down two (02) functions of each of the following protocols.			
	(a)	TCP	(02 marks)		
	(b)	IP	(02 marks)		
(ii)	List t	hree (03) characteristics of IP addresses.	(03 marks)		
(iii) Expand the abbreviations given below.		(04 marks)			
	(a)	WWW (b) HTTP (c) DNS (d) URL			
(iv)	Write	e down three (03) popular services of Internet.	(03 marks)		
(v)	List t	wo (02) advantages and two (02) disadvantages of social networks.	(04 marks)		
(vi)					
	(a)	Mention three (03) additional features included in Dynamic websit	tes compared		
		to Static websites.	(03 marks)		
	(b)	Give two (02) examples for client-side processing technologies use	ed in dynamic		
		web pages.	(04 marks)		
		(Tot	al 25 marks)		

## **Question 03**

(i)

- (a) Briefly explain the term "E-Commerce". (02 marks)
- (b) Write down two (02) benefits an organization can acquire from E-commerce.

(04 marks)

- (c) Mention two (02) technological limitations of E-commerce. (04 marks)
- (ii) Define the following terms relevant to Internet security.

(08 marks)

- (a) Malicious software
- (b) Hacker
- (c) Virus
- (d) spyware
- (iii) Write down three (03) symptoms of spyware.

(03 marks)

(iv) How does a software firewall work? (Explain briefly)

(04 marks)

(Total 25 marks)

## **Question 04**

(i) Briefly explain the duty of a web browser.

(02 marks)

(ii) Mention the purpose of the following HTML tags.

(08 marks)

- (a) <CENTER>
- (b) <OL>
- (c) <UL>
- (d) <HR>
- (iii) Write the html codes to generate the web page given while maintaining the correct html page structure. (15 marks)

(Name of the image is "sliateLogo.png". "Click here" text is linked to SLIATE web: http://www.sliate.ac.lk)

## Instructions for page formatting.

Content	Instructions	
Welcome you to SLIATE!	Header level 1	
Sri Lanka Institute of Advanced	Header level 3	
Technological Education		
Table border	2 pixels	
Table 01:ATI Centers and Sections	Table caption	
Page background color	Yellow	
When the image is not existing	Show the name of image	



# Welcome you to SLIATE!

## Sri Lanka Institute of Advanced Technological Education

Type	ATI Name	Contact Number
	Galle	041 111 1111
ATI Centers		041 888 8888
ATT Centers	Dehiwala	091 222 2222
	Gampaha	033 333 3333
ATI Sections	Tangalle	047 444 4444
A11 Sections	Vauniya	024 555 5555

Table 01:ATI Centers and Sections Click here for more details

(Total 25 marks)

## **Question 05**

SLIATE

- (i) Briefly explain the purpose of using frames in a web page. (02 marks)
- (ii) Sketch the browser view of the following html page. (06 marks)

<HTML>

<HEAD>

<FRAMESET COLS= "\*,2\*,\*" >

<FRAME SRC=""> <FRAME SRC = ""> <FRAME SRC = "">

</FRAMESET>

</HEAD>

</HTML>

- (iii) What is the purpose of including a **Form** in a web page? (03 marks)
- (iv) Sketch the output of the web page generated by the following HTML codes.

(14 marks)

```
<HTML>
<HEAD></HEAD>
<BODY>
<FORM>
<H1>Exam Application Form - 2018</H1>
First Name: <INPUT TYPE="TEXT" SIZE=25 NAME="firstName"> <BR> <BR>
Family Name: <INPUT TYPE="TEXT" SIZE=25 NAME="LastName"><BR><BR>
Address: <br/>
<TEXTAREA ROWS="5" COLS="20" NAME="address">
</TEXTAREA><BR><BR>
Gender: <INPUT TYPE="RADIO" NAME="Gender" CHECKED>Male
<INPUT TYPE="RADIO" NAME="gender">Female <BR><BR>
Select subjects:
<INPUT TYPE="checkbox" NAME="subjects" CHECKED > WEB
<INPUT TYPE="checkbox" NAME="subjects" > PC
<INPUT TYPE="checkbox" NAME="subjects" > DBMS
<BR><BR>
<INPUT TYPE="SUBMIT" NAME="SUBMIT" VALUE="Submit">
<INPUT TYPE="RESET" VALUE="Reset">
</FORM>
</BODY>
</HTML>
```

(Total 25 marks)