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
First Year, First Semester Examination – 2020
HNDIT1106 – Web Development

Instructions for Candidates:
Answer four (04) Questions **including question 01.**

No. of questions: 05
No. of page   : 05
Time   : 02 Hours

Question 01

i) Select most suitable answer from the given list and fill in the blanks.

   a. _____ is a collection of computers and devices connected by communication channels.

   b. Every computer on the internet has a unique numeric identifier, called_____.

   c. _____ enables simultaneous use of phone and data

   d. World Wide Web is a system of interlinked _____ documents accessed via internet.

   e. Buying and selling of products or services over internet is commonly known as_____.

   f. Any software that brings harm to a computer system is known as_____.

   g. _____ is a technology used for exchanging information over wireless media.

   h. PHP is a server-side programming language used for designing _____ web pages.

   i. A _____ comprises of information created by many authors.

   j. The aim of a _____ is to find security weaknesses within systems without doing any damage to the system.

   [ADSL, static, dynamic, Virus, Digital Subscriber Line, cracker, malicious software, Electronic Business, hacker, Computer network, hypertext, WiMAX, Internet Protocol address, Electronic Commerce, collaborative website]

   (2*10=20 Marks)

ii)   State whether the following statements are true or false.

    a. ADSL offer same upload and download speeds.
    b. IRC is a service that allows users to communicate in real time by typing text in a special window.
    c. Web 2.0 facilitate dynamic user generated content
    d. IP address has four parts, each part a number between 0 and 198.
    e. Bandwidth is measured in bits per second.

                                                                                (5 marks)

                                                                            [Total 25 Marks]

Question 02

    i)   What is meant by IP address.   (02 Marks)
    ii) List three wireless networking technologies   (03 Marks)
    iii) Mention two client-side languages and their function.   (04Marks)
    iv) State three advantages and disadvantages of using social networks   (06 Marks)
    v)   Name each piece (A to D) of the given URL/Web address   (04 Marks)

    https://www.sliate.ac.lk/programs/hndit.html
       A   B   C   D

    vi) List three situations that a static web site would be a better choice for an organization

                                                                                (06 Marks)

                                                                            [Total 25 Marks]

Question 03

    i)   Give two examples for collaborative web sites   (02 Marks)
    ii) Expand the following abbreviations   (03 Marks)

        a. URL
        b. ADSL
        c. CSS

    iii) Compare and contrast features of web 1.0 and web 2.0   (04 Marks)
    iv) Briefly Explain four features of E-Commerce web sites. Give two examples for popular e-commerce web sites.
                                                                                (06 Marks)
    v)   Briefly explain two methods that can be used to prevent identity theft.   (04 Marks)
    vi) Define followings which relevant to the computer security.   (06 Marks)

        a. Crackers
        b. Brute force Attack
        c. Dictionary attack
                                                                            (Total 25 Marks)

Question 04

i) What is a web browser? Give one example   (03 Marks)

ii) Mention the purpose of the following HTML tags   (04 Marks)

     a. <PRE>   b. <SUB>

     b. <OL>   c. <CENTER>

iii) Sketch the output of the following HTML code segment.   (08 Marks)

```
<TABLE BORDER="1" ALIGN="CENTER" CELLSPACING="0" WIDTH=50%>
    <TR>
            <TH COLSPAN="4">INVOICE</TH>
    </TR>
    <TR>
            <TH>Description</TH>
            <TH>Hours</TH>
            <TH>Rate</TH>
            <TH>Total</TH>
    </TR>
    <TR>
            <TD>Material </TD>
            <TD>-</TD>
            <TD>1500</TD>
            <TD>1500</TD>
    </TR>
    <TR>
            <TD>Designing </TD>
            <TD>2</TD>
            <TD>350</TD>
            <TD>700</TD>
    </TR>
    <TR>
            <TD>Printing </TD>
            <TD>-</TD>
            <TD>400</TD>
            <TD>400</TD>
    </TR>
    <TR>
            <TD    COLSPAN="3"    ALIGN="CENTER">    TOTAL</TD>
            <TD>2600</TD>
    </TR>
</TABLE>
```

iv) Write HTML codes to generate the following HTML form   (10 Marks)
   (Use Header Level 4 for "USER LOGIN"; password characters should not be visible)

USER REGISTRATION

User name : [   ]

Department: ○ HNDIT ○ HNDA ○ HNDE

Year: [1st year ▾]
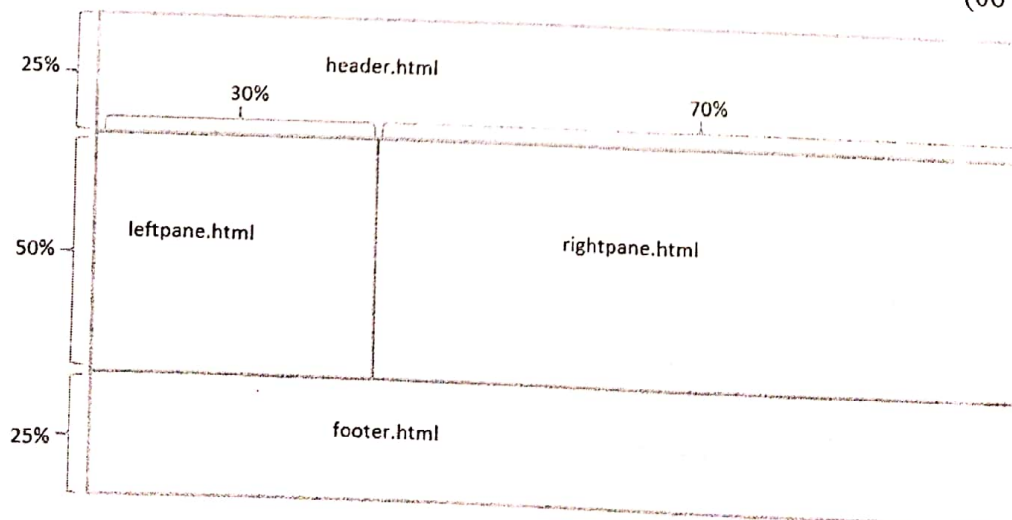
Password : [   ]

[RESET]   [SUBMIT]

[Total 25 Marks]

Question 05

i) Briefly explain the purpose of using forms in a web page.   (02 Marks)

ii) State one attribute for each of the following HTML tags   (03 Marks)

   a. <IMG>   b. <HR>   c. <BODY>

iii) Write HTML codes to create the following frameset   (06 Marks)

iv) Write the HTML codes to Generate the page given below   (14 Marks)

Instructions for page formatting

Sri Lanka Institute of Advanced Technological Education	Header level 1
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Apply Now!	Header level 2
Name of the image	Sliatelogo.jpg
Size of the image	150px*100px
Link address	http://sliate.ac.lk

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Course Aims:

- Provide Information Technology personal to cater to the demands in the next millennium.
- Provide a conceptual basis for more advanced studies in Information Technology field

Course modules

1. HNDIT1101 - Personal Computer Application
2. HNDIT1102 - Computer Hardware
3. HNDIT1103 - Structured Programming
   Click here for more information ..

Important Information:

- Candidates are selected through the order of merit in their GCE (A/L) examination and through an aptitude/ IQ test.

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[Total 25 Marks]