CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

Term-End Examination

June, 2021

CIT-003 : WEB BASED TECHNOLOGIES AND MULTIMEDIA APPLICATIONS

Time : 2 hours   *Maximum Marks : 50*

(Weightage : 75%)

Note : *There are **two** sections in this paper – Section A and Section B. **All** questions from Section A are **compulsory**. Attempt any **three** questions from Section B.*

SECTION A

1. In the following objective type questions, each question has four choices. Select the correct choice as your answer. If none of the given choices are correct, then select 0 (zero) as your answer. Each objective type question carries 1 mark. Write your answers in the answer sheet.   *10×1=10*

    (a) _____ is a worldwide network of computer networks.

        (i)   Internet

        (ii) WWW

        (iii) TCP/IP

        (iv) All of the above

(b) A mobile device which accesses service of a university result database is a _____ to that system.

    (i) Sever

    (ii) Client

    (iii) Node

    (iv) Network device

(c) The address 192.168.1.971 is

    (i) Correct TCP address

    (ii) Incorrect TCP address

    (iii) Correct IP address

    (iv) Incorrect IP address

(d) Which of the following is a search engine ?

    (i) IGNOU web server

    (ii) Google

    (iii) Bank website

    (iv) None of the above

(e) Which of the following HTML tags is used to define an HTML link ?

   (i)   <link ...>

   (ii)   <anchor ...>

   (iii) <a ...>

   (iv)   <html ...>

(f) _____ defines the style and layout of HTML page.

   (i)   DOM

   (ii)   Dynamic HTML

   (iii) CSS

   (iv)   Buttons

(g) To register a new user to a website, you will use

   (i)   Form

   (ii)   Frame

   (iii) Division

   (iv)   DOM

(h)   The size of a vector image is _____ than the size of bitmap image.

    (i)   larger

    (ii)   the same

    (iii) smaller

    (iv) cannot compare

(i)   Which of the following is *not* an authoring tool ?

    (i)   Authorware

    (ii)   ImageQ

    (iii) Macromedia Director

    (iv) MS-Word

(j)   Which of the following is one of the elements of hypertext ?

    (i)   Windows

    (ii)   Trails

    (iii) Scroll bars

    (iv) Browser

2. (a) Find the Network Identifier (NetID) and Device Identifier for the following IP address and Subnet mask : *3*

> IP address : 168.10.24.97
>
> Subnet mask : 255.255.255.0

(b) Write the HTML code that will produce the following list on a browser : *4*

> Certificate in Information Technology Subject list
>
> 1.   CIT–001
>
> 2.   CIT–002
>
> 3.   CIT–003
>
> 4.   CITL–001

(c) What is Multimedia ? What are the advantages of using multimedia ? *3*

SECTION B

3. (a) Explain the purpose of the following hardware components for connecting to Internet : *4*

    (i) Modem

    (ii) Router

    (iii) Network Interface Card

    (iv) Hub

  (b) What is DNS ? Explain with the help of an example. *3*

  (c) What is the use of the following folders/links in an email system ? *3*

    (i) Inbox

    (ii) Spam

    (iii) Trash

4. (a) Explain the purpose of the following HTML tags : *3*

    (i) <p>

    (ii) <a ...>

    (iii) <img ...>

(b) Define the following terms in the context of web page design : *4*

    (i)   DHTML

    (ii)   DOM

    (iii) Scripting

    (iv) CSS

(c) Discuss the use of Radio buttons and check-boxes in a web page, with the help of an example. *3*

5. (a) What is Hypertext ? What are its uses ? Explain any four elements of hypertext. *5*

(b) Explain various formats of images that can be used in multimedia presentations. *3*

(c) List any four functions that should be supported by a multimedia authoring tool. *2*

6. Explain any *four* of the following : $4 \times 2\frac{1}{2} = 10$

    (a)   WWW

    (b)   Search Engine

    (c)   Educational use of multimedia

    (d)   Digital Audio

    (e)   Frames in Web pages

    (f)   Text box and Text area in forms

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