CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

Term-End Examination
December, 2023
CIT-003 : WEB BASED TECHNOLOGIES AND MULTIMEDIA APPLICATIONS

Time : 2 Hours *Maximum Marks : 50*

Weightage : 75%

Note : *(i)* *There are **two** Sections in this paper– Section **A** and Section **B**.*

(ii) ***All*** *questions from Section A are compulsory.*

*(iii) 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 write 0 (zero) as your answer. Each objective type question carries 1 mark. Write your answers in the answer-sheet.

(a) The computers operating on different platforms are connected to Internet using the protocol named ....

  (i)   UDP

  (ii) TCP/IP

  (iii) FTP

  (iv) DNS

(b) Which of the following technologies allows you to make a voice call over Internet ?

  (i)   VoIP

  (ii) TELNET

  (iii) FTP

  (iv) USENET

(c) Which of the following is a scalable computing architecture ?

  (i)   Standard computing

  (ii) Server side computing

  (iii) Client-server computing

  (iv) Mobile devices

(d) Which of the following error codes for 'Bad File Request' in a browser ?

  (i)   52

  (ii) 400

  (iii) 401

  (iv) 404

(e) An IPv4 address is of .... bits.

   (i) 8

   (ii) 16

   (iii) 32

   (iv) 64

(f) You can define the content of cell in HTML by using the .... tag.

   (i) <data>

   (ii) <tr>

   (iii) <th>

   (iv) <td>

(g) Which of the following is the most popular scripting language for the client side scripting ?

   (i) C++

   (ii) HTML

   (iii) JavaScript

   (iv) XML

(h) Which of the following is a standard for storing digital video ?

   (i) mpeg

   (ii) wav

   (iii) vga

   (iv) gif

(i)   Which of the following types of simulation uses multimedia to engage student in a particular problem situation ?

  (i)   Situational based

  (ii) Scenario based

  (iii) Knowledge based

  (iv) Multimedia based

(j)   A .... is a record of the nodes that a user has accessed in viewing a hypertext network.

  (i)   Trial

  (ii) Sequence

  (iii) Link

  (iv) Link sequence

2. (a) Define the following terms in the context of Internet/HTML/Multimedia :   4

  (i)   Document conferencing

  (ii) Thumbnails

  (iii) HTML links

  (iv) URL

  (b) Compare and contrast the following in the context of Internet/HTML or multimedia :

  3×2=6

  (i)   Web Server and Web Client

  (ii) Frames and <Div> tag

  (iii) 2D animation and 3D animation

Section—B

Note : Attempt any **three** questions from the following.

3. (a) What is a search engine ? Explain the purpose of spidering, indexing and storing in the context of a search engine.   6

   (b) Explain the components of an IPv4 address with the help of an example. What is the use of subnet mask in this context ?   4

4. (a) What is the purpose of 'Form' in HTML ? Explain any four different input types in a Form with the help of an example.   5

   (b) Explain the HTML commands for creating a table with the help of an example.   5

5. (a) What is a vector image ? How is it different to a bitmap image ?   4

   (b) What is hypertext ? How is it different from hypermedia ? What are the advantages of using hypertext ? Explain the role of hypertext in online documentation.   6

6. Explain the following with the help of an example/diagram, if needed :   10

   (a) Authority tools

   (b) Different levels of Headings in HTML

   (c) Components of a Web Address

   (d) MODEM

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