

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

June, 2022

**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** the 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) The geographic domain name for India (in the context of a Web Address) is :

- (i) .in
- (ii) .ind
- (iii) .indi
- (iv) .india

- (b) The full form of URL is :
- (i) Uniform Regional Location
 - (ii) Union of Regional Locations
 - (iii) Uniform Resource Locator
 - (iv) Union of Resource Locators
- (c) _____ is a program that crawls on the web to collect and index the pages as per search parameters.
- (i) Search engine
 - (ii) Browser
 - (iii) TCP/IP
 - (iv) Spider
- (d) Once a mail is sent, it is moved to _____ folder of email software.
- (i) Inbox
 - (ii) Sent
 - (iii) Trash
 - (iv) Spam

(e) The information enclosed in _____ tags is displayed in the Title bar of the browser window.

(i) `<body> ... </body>`

(ii) `<p> ... </p>`

(iii) `<head> ... </head>`

(iv) `
`

(f) To connect to various web resources, you will use _____ .

(i) `<a href ...>`

(ii) `< connect href ...>`

(iii) `<link href ...>`

(iv) `<resource href ...>`

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

(i) DOM

(ii) CSS

(iii) HTML

(iv) TCP/IP

- (h) MIDI is a format for :
- (i) Picture
 - (ii) Vector
 - (iii) Animation
 - (iv) Audio
- (i) Which of the following **cannot** be used for real time meeting ?
- (i) Video conferencing
 - (ii) Audio conferencing
 - (iii) Animation conferencing
 - (iv) Document conferencing
- (j) In _____, words can be made into cross-reference links.
- (i) Hypertext
 - (ii) DOM
 - (iii) TCP
 - (iv) IP address

2. (a) Define the following terms in the context of Internet and Multimedia : $4 \times 1 = 4$
- (i) Network Interface Card
 - (ii) Internet
 - (iii) Text box
 - (iv) CD-ROM
- (b) Compare and contrast the following in the context of Internet and Multimedia : $3 \times 2 = 6$
- (i) Email address and Web address
 - (ii) Frames in a web page and Use of <div> tag in web pages.
 - (iii) Email and Voice-mail

SECTION B

3. (a) Explain how Hypertext can be used in the following : 6
- (i) Online documentation
 - (ii) Dictionaries and reference books
 - (iii) News and newspapers
- (b) What are the advantages of using CSS and JavaScript in web programming ? 4
4. (a) Write the HTML code that can create the following table : 5
- | Student Name | Qualification | Marks |
|--------------|---------------|-------|
| XYZ | M.A. | 70% |
| ABC | B.E. | 75% |
- (b) Explain the importance of Animation and Digital video in a multimedia system. Which of them is more useful ? Give justification in support of your answer. 5
5. (a) Given the following IP address and subnet mask, identify the network identifier and device identifier : $2 \times 1 \frac{1}{2} = 3$
- (i) 192.168.5.105 and 255.255.255.0
 - (ii) 128.105.10.10 and 255.255.0.0

- (b) How can AND and OR boolean operators be used in query formulation ? Explain with the help of an example of each. 3
- (c) Explain any four features of email. 4

6. Explain any *four* of the following with the help of an example/a diagram, if needed : $5 \times 2 = 10$

- (a) DNS
- (b) Browser
- (c) Use of drop-down box in forms
- (d) HTML tag for creating link
- (e) Vector image
- (f) Audio conferencing
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