

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

December, 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 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 answers. Each objective type question carries 1 mark. Write your answer in the answer sheet : $10 \times 1 = 10$

(a) allows you to make voice calls using the Internet.

(i) Modem

(ii) VoIP

(iii) WWW

(iv) TCP

(b) Which of the following is valid IP address ?

(i) 10.10.10.10

(ii) 256.0.0.0

(iii) 0.0.0.259

(iv) 0.0.0

(c) If “Mining” OP “Learning” searches for all Web pages that contain both “Mining” as well as “Learning”, then the operator OP is :

(i) NOT

- (ii) NOR
 - (iii) OR
 - (iv) AND
- (d) is a powerful tool for creating collaborative knowledge resources created by the community.
- (i) WIKI
 - (ii) Blog
 - (iii) Bulletin Board
 - (iv) Web page
- (e) tag of HTML is used for single line break.
- (i) <p>
 - (ii) <hr>
 - (iii)

 - (iv) <line>
- (f) DHTML is :
- (i) Dynamism of Hypertext Markup Language

- (ii) Dynamism of Hypertext Machine Language
 - (iii) Dynamic Hypertext Machine Language
 - (iv) Dynamic Hypertext Markup Language
- (g) are used for making selection among the given alternatives.
- (i) Radio buttons
 - (ii) Text box
 - (iii) Group box
 - (iv) Text area
- (h) takes two images and seamlessly changes one image to another.
- (i) Image mixing
 - (ii) Wrapping
 - (iii) Morphing
 - (iv) Imaging

- (i) Which of the following is one of the main forms of simulations ?
- (i) Call based simulations
 - (ii) Scenario based simulations
 - (iii) Learning based simulations
 - (iv) Logic based simulations
- (j) In Hypertext, to connect a node to another a/an is used.
- (i) icon
 - (ii) arrow
 - (iii) network
 - (iv) link
2. (a) Define the following terms in the context of Internet and Multimedia : 4
- (i) Authoring System
 - (ii) Publishing a Website
 - (iii) Blogging
 - (iv) Newsgroup

- (b) Compare and contrast the following in the context of Internet and Multimedia : $3 \times 2 = 6$
- (i) Bitmap images and Vector images
 - (ii) JavaScript and HTML
 - (iii) VoIP and Podcasting

Section—B

3. (a) Explain the purpose of the following hardware components used for Internet : 6
- (i) Modem
 - (ii) Router
 - (iii) Network Interface Card
- (b) Explain various components of the following web address : 4
- <http://www.ignou.ac.in/studentzone/grade-card.html>
4. (a) What is DHTML ? What is the role of CSS for a web page ? 4

- (b) Write the HTML code that creates the following table : 6

Time	Subject	Teacher
10—12 Hrs.	CIT-001	ABC
14—16 Hrs.	CIT-002	XYZ

5. (a) Explain the use of multimedia in publishing industry. 3
- (b) What is Hypertext ? Explain with the help of an example. 3
- (c) What is Multimedia ? What are its components ? Explain. 4
6. Explain any **four** of the following with the help of an example/diagram, if needed : 10
- (a) Audio Conferencing
 - (b) Use of Multimedia in Teaching/Learning
 - (c) Use of <div> tag
 - (d) Use of drop-down box and check box
 - (e) Address book of an e-mail software
 - (f) IP address and Subnet mask