

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

December, 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 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 is 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) Which of the following devices helps in communication of digital information over the telephone lines ?
- (i) Firewall
 - (ii) Modem
 - (iii) Hub
 - (iv) Browser

- (b) Which of the following is a protocol used by a Web Server ?
- (i) HTML
 - (ii) SMTP
 - (iii) HTTP
 - (iv) WWW
- (c) _____ is the process of gathering information of web pages for future analysis.
- (i) Spidering
 - (ii) Collecting
 - (iii) Browsing
 - (iv) Analysing
- (d) If you want to send an email to five users without each one knowing about the other person's email id, you will use :
- (i) To option
 - (ii) Blind option
 - (iii) cc option
 - (iv) bcc option

- (e) To insert a horizontal line in an HTML document, you will use _____ tag.
- (i) <hr>
 - (ii)

 - (iii) <line>
 - (iv) <ruler>
- (f) Which of the following is **not** a server-side-scripting language ?
- (i) ASP
 - (ii) JSP
 - (iii) PhP
 - (iv) C++
- (g) To take feedback on your website from users, you will create a web page consisting of a _____ .
- (i) Form
 - (ii) Frame
 - (iii) CSS
 - (iv) Web tool
- (h) .WAV is a file format of _____ .
- (i) Picture file
 - (ii) Sound file
 - (iii) Video file
 - (iv) Text file

- (i) Online documentation is an application of _____ .
- (i) Link analysis
 - (ii) Word processor
 - (iii) Hypertext
 - (iv) TCP/IP
- (j) Which of the following is **not** a characteristic of distributed learning environment ?
- (i) Collaboration
 - (ii) Real-time communication
 - (iii) Multimedia Interface
 - (iv) All of the above

2. (a) What is a firewall in the context of a computer network ? How does it relate to computer security ? 3
- (b) Write the HTML code to create the following table : 4

Course Code	Course Name	Credits
IT-0011	Introduction to IT	3
IT-0021	Introduction to Database	3
IT-0031	Web Programming	3

You need not write the formatting attributes.

- (c) List the advantages of using CD/DVDs for a multimedia computer. 3

SECTION B

3. (a) What is a subnet mask ? Why is it used ?
Explain with the help of an example. 4
- (b) What is a search engine ? Explain how it
collects, indexes and stores information of
web pages, so that search results can be
generated quickly. 4
- (c) List any two characteristics of a Wiki. 2
4. (a) Write the HTML code segment that creates
a link to the website www.ignou.ac.in. 2
- (b) What is the use of scripting languages ?
Explain with the help of an example. List
the names of any two scripting languages. 4
- (c) What is the use of the following fields of a
form ? 4
- (i) Drop-down box
 - (ii) Check box
 - (iii) Group box
 - (iv) Text box
5. (a) Differentiate between the following in the
context of a multimedia applications : 6
- (i) Vector images and Bitmap images
 - (ii) MIDI and WAV files
 - (iii) Animation and Digital video
- (b) List the advantages of using multimedia in
the Publishing Industry. 4

6. Explain any *four* of the following :

$$4 \times 2 \frac{1}{2} = 10$$

- (a) Audio Conferencing
 - (b) Hypertext
 - (c) GIF
 - (d) CSS
 - (e) HTTP
 - (f) Web Browser
-