

**CERTIFICATE IN INFORMATION
TECHNOLOGY (CIT)**

Term-End Examination

03167

December, 2019

**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 answer in the answer sheet. *10×1=10*

- (a) "Yahoo!" is a
- (i) Browser
 - (ii) Web account
 - (iii) Game
 - (iv) Search engine

- (b) Which of the following is a valid IPv4 address ?
- (i) 256.1.1.0
 - (ii) 256.256.256.256
 - (iii) 1.1.1.1
 - (iv) 0.527.364
- (c) Hashing can be used for making
- (i) Index
 - (ii) Web pages
 - (iii) Website
 - (iv) Database
- (d) Which of the following is a comment tag in HTML ?
- (i) <comment>
 - (ii) <remark>
 - (iii) <!-- -->
 - (iv) <c -->
- (e) Unicode encoding was needed because ASCII had
- (i) inconsistent use
 - (ii) too many control characters
 - (iii) two representations for zero
 - (iv) limited size

- (f) Frames are used as
- (i) boxes
 - (ii) containers
 - (iii) anchor tags
 - (iv) tables
- (g) Sizes of bitmap image and vector image are
- (i) same
 - (ii) larger for bitmap image
 - (iii) smaller for bitmap image
 - (iv) have no correlation
- (h) DLL means
- (i) Dynamic Link Logic
 - (ii) Dynamic Load Layer
 - (iii) Different Logic Layer
 - (iv) Dynamic Link Library
- (i) Which of the following is an important media for multimedia publishing ?
- (i) CD-ROM
 - (ii) Hard disk
 - (iii) Voice data transfer
 - (iv) Fast processor
- (j) Which is the protocol of WWW ?
- (i) HTML
 - (ii) IIS
 - (iii) Apache
 - (iv) HTTP

2. (a) Define the following terms in the context of Internet and Multimedia : 6
- (i) MPEG
 - (ii) MIDI
 - (iii) Button
 - (iv) `
` tag
 - (v) `` tag
 - (vi) DOM
- (b) Compare and contrast the following : 4
- (i) Chat and Newsgroup
 - (ii) Modem and Router

SECTION B

3. (a) Explain the role of firewall, browser and TCP/IP in the context of Internet. 6
- (b) Explain the use of relative and absolute HTML link with the help of an example each. 4
4. (a) What is the need of HTML forms in web design ? Explain the use of text box, radio buttons and check box in the context of HTML forms, with the help of an example. 6
- (b) Explain the importance of simulation in teaching and learning with the help of an example. 4
5. (a) What is hypertext ? How is hypertext different from hypermedia ? Explain any two applications of hypertext. 6
- (b) How can DNS be used to interpret a web address ? Explain with the help of an example. 4

6. Explain any *four* of the following terms giving an example/diagram, if needed :

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- (a) Building the index in search engine
 - (b) Web server
 - (c) E-mail address
 - (d) <div> tag
 - (e) Unordered lists in HTML
 - (f) Cel animation
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