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CIT-003

**CERTIFICATE IN INFORMATION
TECHNOLOGY
(CIT)**

Term-End Examination

June, 2026

**CIT-003 : WEB BASED TECHNOLOGIES AND
MULTIMEDIA APPLICATIONS**

Time : 2 Hours

Maximum Marks : 50

Weightage : 75%

Note : *There are two Sections in this paper, namely, 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 mark 0 (zero) as your answer. Each objective type question carries one mark : $10 \times 1 = 10$

(a) The following is a worldwide collection of Computer Network cooperating with each other to exchange data using a common software standard :

- (i) Usenet
- (ii) Internet
- (iii) LAN
- (iv) WAN

(b) The following product enables you to organize your medical records online :

- (i) Google Health
- (ii) Google Docs
- (iii) Google Calendar
- (iv) Google Talk

- (c) In order to build the index, a numeric value is attached to each word by a formula and then it is sorted to show the word with highest ranking in the top. This process is called
- (i) Naming
 - (ii) Hashing
 - (iii) Heap
 - (iv) Keying
- (d) Which HTML tags are used to display superscripted text?
- (i) `<sup>` and `</sup>`
 - (ii) `<sub>` and `</sub>`
 - (iii) `<big>` and `</big>`
 - (iv) `<small>` and `</small>`
- (e) Which tag in HTML is used to draw a horizontal line across the width of the document ?
- (i) `<hr>`

- (ii) <hl>
- (iii) <line>
- (iv) <rule>
- (f) Edutainment means
 - (i) Educational entertainment
 - (ii) Technical learning
 - (iii) Online teaching
 - (iv) Business education
- (g) Multimedia enhances education by
 - (i) Removing visuals
 - (ii) Reducing content
 - (iii) Increasing understanding and curiosity
 - (iv) Eliminating teachers
- (h) MPEG is used for
 - (i) Image storage
 - (ii) Audio only
 - (iii) Text editing
 - (iv) Video compression

- (i) Flowcharts are used in
- (i) Editing
 - (ii) Production
 - (iii) Distribution
 - (iv) Planning
- (j) Which device is used to connect segments of a LAN by copying data received at one port to all other ports ?
- (i) NIC
 - (ii) Hub
 - (iii) Router
 - (iv) Modem
2. (a) What is IP in the context of Internet ?
Explain the use of an IP address. 5
- (b) What is an Authoring system ? Explain
any *four* features of it. 5

Section—B

3. (a) What are the advantages of using frames in designing a web page ? Can usage of DIV tag lead to creation of better web pages ? Justify your answer. 5
- (b) What are Vector images and Bitmap images ? Explain the differences between them. 5
4. (a) What is a Search Engine ? Explain how it collects, indexes and stores information of WebPages, so that the search results can be generated quickly. 5
- (b) Explain any *five* applications of multimedia in the field of Education. 5
5. (a) Explain the following HTML tags with an example for each : 5×1=5
- (i) <p>
 - (ii) <HTML>
 - (iii) <hr>
 - (iv) <body>
 - (v)

- (b) What is hypermedia ? How is it different from hypertext ? Give any *two* applications of hypermedia. 5
6. (a) Explain the role of TCP/IP in Internet. 5
- (b) Explain the term 'Document Conferencing' in the context of Internet. 5

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