## CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

### Term-End Examination

### December, 2013

## 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.* *There are* *four* *questions in* *Section-B.* *Attempt* *any three* *questions from* *Section-B.*

### SECTION – A

1.  In the following objective type questions, each **10** 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 question carries 1 mark. Write your answer in the answer sheet given to you.

    (a)  World Wide Web uses the _____ protocol at application level.
    
    (i)   TCP/IP          (ii)   UDP
    (iii)  HTTP           (iv)   Ethernet

    (b)  To find documents on the Internet which contains text "IGNOU" as well as "Computer Science, you need to use the following operators between the two words:
    
    (i)   AND
    (ii)  NOT
    (iii) XOR
    (iv)  No operator is required

(c) A browser is a/an :
   (i) TCP/IP implementation
   (ii) Hardware required to run Internet
   (iii) Interface for web application
   (iv) Search engine.

(d) To create a web link you need to use _____ tag.
   (i) <div>     (ii) <a>
   (iii) <li>    (iv) All of the above

(e) The size of a vector image :
   (i) Does not change with increase in size
   (ii) Increases with increase in size
   (iii) Decreases with increase in size
   (iv) None of the above

(f) Internet uses:
   (i) Only ASCII encoding
   (ii) UNICODE encoding
   (iii) Neither ASCII nor UNICODE
   (iv) Either ASCII or UNICODE

(g) To enter table headings you may use _____ tag.
   (i) <head>        (ii) <t head>
   (iii) <tab head>  (iv) <heading>

(h) For collaboration among a group you can use:
   (i) Wiki
   (ii) Open source software
   (iii) Facebook
   (iv) All of the above

(i) CSS is used for :
   (i) Creating styles
   (ii) Creating Web page
   (iii) Creating interaction
   (iv) All of the above

(j) .mpeg format is used for :
    (i)    Graphics files    (ii)    Text files
    (iii)   Video files    (iv)   All of the above

2. Answer the following questions :    **10**
  (a) What is meant by a vector image ? Differentiate between bitmap and vector images.
  (b) Explain the steps required to access a web page using a browser.
  (c) What is GIF ? List the features of GIF construction set.
  (d) What are the uses of VOIP and podcasting on Internet ?

## SECTION - B

3. (a) Why do you use text, images, animation, video and audio in a multimedia application such as tutors? Explain with the help of an example.    **6**
  (b) List various tags that are used for making a table in HTML. Give example of use of these tags.    **4**

4. (a) What is a Search Engine ? How does it works ? Explain with the help of a diagram.    **6**
  (b) What is Hypertext ? Explain the concept of Nodes, Links and Annotations in the context of Hypertext.    **4**

5. (a) Why do you use forms in web pages ? Explain the fields that you will use to create a registration form.    **6**
  (b) Explain the steps that are required to create a web email account.    **4**

**6.** Explain **any five** of the following with the help    **10**
of a/an diagram/example, if needed :
  (a)  DIV tag in HTML
  (b)  Web server
  (c)  Frames in the context of HTML
  (d)  Publishing a website
  (e)  Document object model in the context of HTML
  (f)  Authoring software
  (g)  Collaboration using multimedia
  (h)  WIKI

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