CS-705A

INTERNET TECHNOLOGY

Time Allotted: 3 Hours

Full Marks: 70

The questions are of equal value.
The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

GROUP A
(Multiple Choice Type Questions)

1. Answer all questions.

    10×1 = 10

    (i) What does a Markup tag tell the web browser?

    (A) how to organize the page

    (B) how to display message box on page

    (C) how to display the page

    (D) none of these

    (ii) Which organization defines the Web Standards?

    (A) Apple Inc

    (B) World Wide Web Consortium (W3C)

    (C) Microsoft Corporation

    (D) IBM Corporation

    (iii) HTML documents are saved in

    (A) ASCII text

    (B) machine language codes

    (C) special binary format

    (D) none of these

    (iv) Which of the following is correct regarding meta tag in HTML?

    (A) <meta>...</meta>

    (B) <meta name = " "/>

    (C) <metadata>...</metadata>

    (D) <metadata name = " "/>

(v) Which of the following is correct to set "Black" colour as Background of page?

   (A) <body bgcolour = "#000000">

   (B) <body background = "#000000">

   (C) <body background colour = "#000000">

   (D) all of these

(vi) How to embed an audio file in HTML?

   (A) <embed src = "myfavsong.mid" width = "100" height = "15">

   (B) <embed sound = "myfavsong.mid" width = "100" height = "15">

   (C) <embed audio = "myfavsong.mid" width = "100" height = "15">

   (D) <embed music = "myfavsong.mid" width = "100" height = "15">?

(vii) Which syntax is used to describe elements in CSS?

   (A) protectors

   (B) selectors

   (C) both (A) and (B)

   (D) none of the mentioned

(viii) Which of the following is tree view parser?

   (A) SAX

   (B) DOM

   (C) both (A) and (B)

   (D) none of these

(ix) In telnet, the client echoes the character on the screen but does not send it until a whole line is completed in

   (A) default mode

   (B) character mode

   (C) server mode

   (D) none of the mentioned

(x) .... programs can be used to accomplish functions indirectly that an unauthorized user could not accomplish directly.

   (A) Zombie

   (B) Worm

   (C) Trojan Horses

   (D) Logic Bomb

I.Tech/CSE/odd/Sem-7th/CS-705A/2014-15

GROUP B
(Short Answer Type Questions)

Answer any *three* questions.   3×5 = 15

(a) State different types of lists with examples in HTML.
(b) State the use of <pre> and <del> tags.   3+2

(a) What are the usage of hover, active and focus dynamic pseudo classes?
(b) What is cookie?   3+2

(a) Implement the following regular expression in Perl: a*bc.
(b) What do you mean by spoofing?   3-2

(a) What is Denial-of-service attack?
(b) Discuss briefly about proxy firewall.   2+3

(a) What is the difference between class selector and id selector in CSS.
(b) Give coding example for inline styles of CSS.   3+2

GROUP C
(Long Answer Type Questions)

Answer any *three* questions.   3×15 = 45

(a) What do you mean by the term 'DNS'? Explain DNS Recursive Resolution technique with a diagram.
(b) What is the significance of NVT in TELNET remote login procedure?   (2+5)+(3+
Describe different types of operational mode in TELNET.   5)

(a) What is the meaning of the term 'Hypertext Transfer Protocol' in World Wide Web environment?
(b) What is URL? Explain different component of URL.
(c) Distinguish between GET and POST method in HTTP.
(d) Explain different file transmission mode across FTP data connection.   2+(1+4)+4
                                                                            +4

CS/B.Tech/CSE/odd/Sem-7th/CS-705A/2014-15

9. (a) What is classless addressing scheme? How does NAT work?
   (b) What do you mean about the term 'Subnet'? Why masking is necessary? Distinguish between default mask and subnet mask.
   (c) A block of address is granted to a small organization.We know that one   2+4+1+1+
       of the addresses is 205.16.37.39/28. What is the first and last addresses   3+4
       in the block?

10.(a) Why MIME is used as an extension of SMTP for e-mail transferring system over network?
   (b) What is the responsibility of Mail Transfer agent?
   (c) Explain different stages of SMTP email delivery system with the help of   3+6+6
       a diagram.

11.   Write short notes on any *three* of the following: 3×5
   (a) Three-way handshaking of TCP connection establishment.
   (b) Path vector routing.
   (c) Proxy Firewall.
   (d) HTML Image Map.
   (e) XML tree.

3   7401   4