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Paper Code : CS-705A

INTERNET TECHNOLOGY

Time Allotted: 3 Hours

Full Marks: 70

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

Answer all groups.

Group – A

(Multiple Choice Type Questions)

1. Choose the correct alternative for each of the following: http://www.makaut.com   1×10=10

   (i) HTML documents are saved in

      (a) ASCII text
      (b) Machine language codes
      (c) Special binary format
      (d) None of these

   (ii) The position of SSL in TCP/IP protocol suite is

      (a) between transport and internet layers.
      (b) between data link and physical layers.
      (c) between application and transport layers.
      (d) None of these

   (iii) The _____ in XML is equivalent to the schema in database

      (a) element
      (b) attribute
      (c) parser
      (d) DTD

   (iv) Which syntax is used to describe elements in CSS?   http://www.makaut.com

      (a) Protectors
      (b) Selectors
      (c) Both (a) and (b)
      (d) None of these

Turn Over

(v) In Telnet, the client echoes the character on the screen but does not send in until a whole line is completed in   http://www.makaut.com
   (a) default mode
   (c) server mode
   (b) character mode
   (d) None of these

(vi) HTTP status code is
   (a) two-digit code
   (c) four-digit code
   (b) three-digit code
   (d) five-digit code

(vii) Cookies are stored in
   (a) Web Server
   (c) Database Server
   (b) Web Browser
   (d) Application Server

(viii) In IPV4, what is the length of the data field for given an HLEN value of 12 and length value of 40·000?
   (a) 39·988
   (c) 40·048
   (b) 40·012
   (d) 39·952

(ix) Which of the following is correct regarding meta tag in HTML?
   (a) <meta>...</meta>
   (c) <metadata>...</metadata>
   (b) <meta name = " "/>
   (d) <metadata name = " "/>

(x) In IPV6 option length is
   (a) 4
   (c) 3
   (b) 5
   (d) infinite

Group – B

(Short Answer Type Questions)

Answer *any three* of the following.   5×3=15

2. Explain the life cycle of a JAVA servlet.   http://www.makaut.com   5

3.   (a) What is Denial-of-service attack?

   (b) Discuss briefly about proxy firewall.   2+3=5

4. Compare POST and GET methods.   5

5. Briefly explain JSP architecture.   5

6.   (a) What is cookie?

   (b) Why is HTTP stateless?   2+3=5

2

Group – C
(Long Answer Type Questions)
Answer *any three* of the following.

15×3=45

7. (a) What is URL? Explain different component of URL.

   (b) Prepare an XML document for the following table with internal DTD definition:

NAME	STU_ID	Department
Mr. XYZ	STU1	SCE
Mr. ABC	STU2	I.T.

   (c) Write a simple servlet program which will return the current data and time. (1+4)+6+4=15

8. (a) What is Web container? What is servlet engine?   http://www.makaut.com

   (b) What is responsibility of MAIL Transfer agent?

   (c) Create a JSP page to find the factorial of a number. 4+6+5=15

9. (a) Illustrate the basic tags of a HTML page with an example.

   (b) Explain different stages of SMTP email delivery system with the help of a diagram. 10+5=15

10. (a) Write the steps required to create the DSN.

    (b) Design a HTML form for registration to a website for a specific service. The form should contain at least one instance of the following form elements: 6+9=15

      (i) Text Box

      (ii) Check Box

      (iii) Select Box

      (iv) Submit and Rest Button

      (v) Radio Button

5×3=15

11. Write short notes (*any three*):   http://www.makaut.com

    (a) HTML Image Map
    (b) VPN
    (c) SMTP
    (d) Gateway
    (e) Proxy firewall