IT502 - Web Technology

P. Pages : 2   ‖‖‖‖‖‖‖‖‖ *1286*   **GUG/W/18/1637**

Time : Three Hours   Max. Marks : 80

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Notes : 1. All questions carry marks as indicated.
2. Due credit will be given to neatness and adequate dimensions.
3. Assume suitable data wherever necessary.
4. Illustrate your answers wherever necessary with the help of neat sketches.

1.   What is TCP/IP model? Explain its different layers and their functions.   **16**

OR

2.   a)   Difference between the following pairs **any two.**   **10**
     a)   Internet and Intranet.   b)   TCP and UDP connection.
     c)   OSI model and TCP/IP model.

   b)   Write short notes on **any three.**   **6**
     a)   Web Browser.   b)   SGML.
     c)   Telnet.   d)   Character entities.

3.   a)   Write a HTML program to design a form as shown below –   **8**

        Registration Form

Name	: [_____]
Password	: [_____]
Retype password	: [_____]
Passing year	: [_____]
Email – ID	: [_____]
Mobile No	: [_____]
Address	: [_____]

        [Submit] [Clear]

   b)   What is CSS? Explain its various types with the help of an example.   **8**

OR

4.   a)   Write a HTML program to get a table as shown: **10**

	Inkjet		Laser		
	Original	500	600	2P	4m
Software	0	2	1	0	2
Hardware	1	1	0	1	0
Sales	0	0	0	1	1
Drawing	0	2	0	0	0

   b)   Discuss the syntax, attribute and purpose of the following tags.   **6**
     a)   Frames and Frameset.   b)   Hyperlink.
     c)   Break and Horizontal rule

5.	a)	What is Common gateway Interface? Explain its architecture and its working with the help of proper diagram.	**8**
	b)	Write a program in "C" for client socket which can run on Linux platform.	**8**

OR

6.		Name and describe the syntax of the given task.	
	a)	Naming a Socket.	**4**
	b)	Creating a Socket.	**4**
	c)	Accepting Connection.	**4**
	d)	Requesting Connections.	**4**

7.	a)	Write an XML code for the following declaration defined in DTD.	**10**

<ELEMENT EMAIL (TO + FROM, CC*BCC*, SUBJECT?, BODY?)>
<!ATTLIST EMAIL
   LANGUAGE (HINDI | ENGLISH | WESTERN | GREEK)" ENGLISH>
<!ATTLIST. BCC
   HIDDEN CDATA # FIXED "FALSE">

	b)	Explain the following in short.	**6**
		a) IGNORE and INCLUDE Keywords	
		b) Processing Instruction.	
		c) Content Model element declaration.	

OR

8.	a)	What are "Supported data type" in XML? Give their description in short.	**8**
	b)	Write short notes on **any two.**	**8**
		a) XML Structure.	
		b) Element Declaration.	
		c) Document type Definition.	

9.	a)	Explain the XML, Parent / Child relationship. Write XML code in support of it.	**8**
	b)	Discuss about the following XSL elements.	**8**

a)	XSL : apply – templates	b)	XSL : attribute.
c)	XSL : edata	d)	XSL : for-each
e)	XSL : eval	f)	XSL : element
g)	XSL : when	h)	XSL : choose

OR

10.	a)	Explain the following.	**8**
		a) XLink : Simple Links b) XLink : Extended Link	
	b)	Explain the concept of creating unique names via XML namespace. Also with the help of an examples, describe qualified and unqualified names.	**8**

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