B.E. Information Technology Sem-V
IT502 - Web Technology

P. Pages : 2

Time : Three Hours

1271

Max. Marks : 80

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Notes : 1. Same answer book must be used for all questions.
2. All questions carry equal marks.
3. Due credit will be given to neatness and adequate dimensions.
4. Assume suitable data wherever necessary.
5. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) What is OSI Model? Explain the functions of the OSI Layers. **12**

b) Explain the terms: **4**
i) Web Browser ii) Telnet
iii) E-Mail iv) Client-server Architecture.

OR

2. a) What is URL? List and explain different types of URLs in detail. **10**

b) Compare **6**
i) TCP and UDP connection. ii) HTML and SGML.

3. a) Explain FORM tag. Explain various tags use to input various form elements. Also give a suitable example for the same. **12**

b) Discuss the syntax, attributes and purpose of the following tags: **4**
i) FONT ii) Paragraphs.
ii) Heading iv) Image Tag.

OR

4. a) How can we create tables in HTML? Enlist the attributes in detail with suitable example. **10**

b) Explain the syntax, purpose and implementation of hyperlinking. **4**

c) What are cookies? Explain its use. **2**

5. a) What is Common Gateway Interface (CGI)? Explain the architecture and the working with the help of proper diagram. **10**

b) Explain GET and POST method. **4**

c) How do browsers handle multiple spaces in HTML? **2**

OR

6.		What is socket? Describe the use and syntax of socket system call of the following:	**16**

i)   socket( );   ii)   bind( );

iii) accept( );   iv) connect( );

v)   close( );

7. Write XML program for E-mail document in the following two ways: **16**

i)   Using Internal DTD.   ii)   Using External DTD.

OR

8. a) Explain with suitable XML code, physical and logical structure of XML document. **8**

b) Write an XML code for the following declarations defined in DTD. **8**
   <!ELEMENT EMAIL (TO+, FROM, CC∗, BCC∗, SUBJECT?, BODY?)>

9. a) Explain : **8**
   i)   Week V/s Strong typing.
   ii) Simple V/s Extended XLink.

b) Explain XSL elements and XSL methods. **8**

OR

10. a) What are the goals for creating XLink? **8**

b) Explain XML Namespaces and its types. **8**

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