

MODEL QUESTION PAPER
VI Semester B.E. (Information Science & Engineering)
Web Technologies (08ISC604)

Duration: 3 hours

Max. Marks: 100

- Note: i) Answer any TWO full questions from UNIT I, any TWO full questions from UNIT II and any ONE full question from UNIT III.
 ii) Assumptions made need to be clearly indicated.

UNIT I

1. (a) What is Web Browser and Web Server? Explain the two phases of HTTP? (10M)
 (b) Write an HTML with JavaScript document to explain at-least eight different methods of String objects. (10M)

2. (a) Create a HTML document that displays table of football scores from a league football conference in which team names have one of the primary colors of their respective schools. The winning scores must appear larger and in a different font than the losing scores. The document needs to include the winner team image and enough text to precede the image. The document must also include the ordered list of teams from winner to loser. The team names must be in a script font. (10M)
 (b) Write a JavaScript function called form_validate() to check the following fields. Regular expressions for the fields are given in bullets. (10M)
 - i. First Name
 - o Alphabets, numbers and space(' ') no special characters min 3 and max 20 characters.
 - ii. Mobile number
 - o It should have exactly 10 digits
 - iii. Username
 - o Supports alphabets and numbers no special characters except underscore('_') min 6 and max 20 characters.
 - iv. Password
 - o Password supports special characters and here min length 6 max 20 characters.
 - v. Email-Id
 - o Standard email address

3. (a) Write an HTML with JavaScript code to preload at-least 4 images and associate text. The format is given below: (12M)

Image Viewer	Text area to display associated message
<< Previous	Next >>
Automatic:	<input type="checkbox"/>

When clicked on the next button, get the next image and next text or when clicked on the previous button, get the previous image and previous text. When clicked on the check box to select it, get a slide show with the images and text changing automatically.

- (b) Justify that, Javascript is a loosely typed language. What makes it the most popular scripting language on the internet? (5M)
(c) Write an HTML document with Javascript to explain browser objects. (5M)

UNIT II

4. (a) List the benefits of perl. Write a Perl program segment to read a text file "input.txt", and generate as output another file "out.txt", where a line number precedes all the lines. (10M)
(b) Explain the working of CGI? Give five methods in CGI.pm that are used to create HTML output & their functions. (10M)
5. (a) Write a Perl program to accept the name, age and address from HTML page using post method, and insert it into a database. Display back to the browser "inserted successfully". Otherwise display "not inserted". (10M)
(b) What is PHP? What are the different ways of embedding PHP into HTML? Explain the two types of arrays available in PHP with example. (10M)
6. (a) Write a PHP program to search a book for a title given by the user on a web page and display the search results with proper headings for given book with complete details about the book. (10M)
(b) What is CGI? Write a note on different security issues associated with CGI programs. (10M)

UNIT III

7. (a) What is XML? Explain the structure of XML document? (06M)
(b) Explain XML Schema and DTD with an example. (10M)
(c) Distinguish between PCDATA and PCDATA. (04M)
8. (a) Describe with an example how to format an XML document using CSS? (08M)
(b) Explain how XML Namespaces can be used to solve the name conflicts with appropriate example. (08M)
(c) What is XML DOM? (04M)