

Mid Term Examination

April-2024

Code: CIE-356 T

1.30 Hours

Attempt Q. No. 1 which is compulsory and any two more questions from remaining.

Subject : Web Technologies
Max Marks - 30

Questions

Write external DTD for below xml document

```
<address>
  <name>
    <first>Rohit</first>
    <last>Sharma</last>
  </name>
  <email>sharmarohit@gmail.com</email>
  <phone>9876543210</phone>
  <phone>9876553467</phone>
  <birthday>
    <year>1987</year>
    <month>June</month>
    <day>23</day>
  </birthday>
</address>
```

Max.
Marks CO (s)

2.5 1

b) What is the difference between type conversion and type coercion in JavaScript. Explain with example .

2.5 2

c) Explain the box model in CSS. How to calculate the dimension of the box?

2.5 1

d) What advantages does JSP has over servlets? Explain

2.5 2

2a) Write HTML code to create a online USER REGISTRATION FORM with following fields Name, Age, Gender, Hobbies (minimum 2), Email, Mobile number, Password, submit button.

5 1

b) Write JavaScript code to validate Gender, Hobbies, Email, Password (8-15 length, 1 Uppercase, 1 numeral, 1 special character \$#%!)

5 2

) Discuss in detail JSP architecture and its lifecycle.

5 2

How positioning of HTML elements can be done using CSS? Create a HTML page with a div with some content and two paragraphs with some contents having id p1 and p2.

5 1

Write external CSS for the div tag having fixed position with border style solid and width 2px. the p1 should have relative position. The font type of p1 should be Arial and color should be red. The p2 have absolute position with top 0px and left 200px.

What is DOM? Explain with example how the elements of HTML document tree structure can be accessed using JavaScript

5 2

What is Web layout? Create a web layout in HTML using Flexbox.

5 1

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(Please write your Roll no immediately)

Roll no _____

FIRST TERM EXAMINATION (Regular)

Sixth Semester [B.Tech] April 2022

Code ETCS-308

Time: 1 ½ hours

Subject: Web Engineering

Max Marks: 30

Note: Attempt Q.No.1 which is compulsory and any two more questions.

Question No 1.

- a. Differentiate between HTML and XHTML. (2*5=10)
- b. What are the different components of CSS?
- c. Explain the scope of local and global variables in Javascript.
- d. State the difference between internet and www.
- e. What is NaN?

Question No 2.

- a. How to create form in HTML and validate the email and name field using JavaScript. (7)
- b. Discuss the internal and external style sheets in detail. (3)

Question No 3.

- a. Write a program to print HELLO WORLD using JavaScript. (4)
- b. Define Servlets. Explain Servlet life cycle. (6)

Question No 4.

- a. Write a JavaScript conditional statement to find the sign of product of three numbers. Display an alert box with the specified sign.
Sample numbers : 3, -7, 2 (7)

- b. Explain for-in loop with the help of example. (3)

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Roll No

First Term Examination

B.Tech-VI Sem

Paper Code : ETCS-308

Time: 1 1/2 Hours

Feb. & March 2016

Subject: Web Engineering

Max. Marks : 30

Note : Q. No. 1 is compulsory. Attempt any two more Questions from the rest.

Q.1 : Attempt All

(10*1=10)

- a) Who is known as the father of World Wide Web ?
- b) What is the standard port for HTTP connections ?
- c) Differentiate between DIV and SPAN .
- d) What are the current technologies used to develop dynamic web applications ?
- e) Which command allows a client to remove a file from a Web Server using HTTP ?
- f) Define GET() and POST() methods.
- g) Differentiate between XML and HTML.
- h) What is WMLScript used for ?
- i) is the space between the content and cell boundary in a table cell.
- j) Which Tag is used for making a drop-down list in HTML ?

(2*5=10)

Q.2 :

- a) What is the purpose of CSS Box model and mention its parts also ?
- b) Compare Servlets with CGI.

(2*5=10)

Q.3

- a) Write a program to validate the content of an HTML form.
- b) Differentiate between POP3 and IMAP.

(2*5=10)

Q.4:

- a) Explain different types of Style Sheets ?
- b) Write a program
 - i) to add an ordered list in a web page
 - ii) to create frames in a web page

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Roll No:

B. Tech. Mid-Term Examination

February 2020

Semester 6th
Paper Code: ETCS 308

Subject: Web Engineering

Time: 1.5 hours

Max Marks: 30

Note: -- Q.No. 1 which is compulsory and attempt any two more questions.

Q. 1(a) What is Drupal? (2)

Q. 1(b) Explain how CSS can be used to change the view. (2)

Q. 1(c) What are Cookies? (2)

Q. 1(d) Write the HTML code which includes table. (2)

Q. 1(e) Differentiate between Java and Java Script. (2)

Q. 2(a) How to publish a Web Site? Explain process of Web Publishing. (5)

Q. 2(b) Explain the concept of Exception Handling. How to create use defined exceptions. (5)

Q. 3(a) Explain Servlet life cycle and working of service() method of a Servlet. (5)

Q. 3(b) Explain how to access a database from JSP & page. Give the database connectivity issues in detail. (5)

Q. 4(a) Explain following HTML tags (5)

<P>

<HR>

<PRE>

Caption

Q. 4(b) Write a Java program to create threads, one displays 'Computer Engineering' and another displays 'Information Technology' (5)

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First Terminal Examination (February-2019)

B.Tech.: Sixth Semester IT

Subject Name: Web Technology

Max Marks: 30

Paper Code: ETCS 308

Time: 1:30 Hrs

Note: Question 1 compulsory. Attempt any two questions out of rest three.

- Q1.** a) Define DTD with example. (2)
b) Differentiate between splice() and slice(). (2)
c) Explain the term cookies and sessions. (2)
d) Mention the different types of 'Lists' in HTML and write the tag for printing ordered list of roman numerals starting from 'X' (2)
e) Explain different types of pop up boxes in java script with example. (2)
- Q2.** a) Write a script that inputs several lines of text and a search character to determine the number of occurrences of the character in the text. (6)
b) Explain in detail Servlets lifecycle. (4)
- Q3.** a) What is DOM. Draw a detailed DOM objects structure and its usage (4)
b) Write a JSP Program to count no. of visitors on website. (6)
- Q4.** a) Make the form Using form Tag and do the following validation. Form contains three fields Roll number, Password and email. Roll number as required field generates error message if left blank on change of focus. Password having minimum length 8 and E-mail validation using regular expression on click of submit button. Reset button will clear all the fields. These all are enclosed in a field set having heading as Login Details. (6)
b) Write CSS code that defines five classes of rows in a table with different background, colour, margins, padding and border style.. (4)

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First Term Examination

B.Tech. – VIth Sem.

Paper Code: ETCS-308

Time : 1hr 30 min

February-2017

Sub: Web Engineering

Max. Marks: 30

Note: Q. No. 1 is compulsory. Attempt any two more Questions from the rest.

Q. 1: Attempt All:

(1*10=10)

- a) What is CDATA section ?
- b) Define eval() function.
- c) Differentiate between SGML and HTML.
- d) What are sessions and cookies ?
- e) Differentiate between indexOf() and lastIndexOf().
- f) Write the names of two application server and two web server.
- g) Briefly describe WML and XML.
- h) Differentiate between JSP and Servlet.
- i) Differentiate between Inline, External and Internal Style Sheets.
- j) are the block of JavaScript code that performs a specific task and return a value.

Q.2 : a) Explain any two Email protocols.

(5)

b) Write a program to show the use of all tags and attributes used to create a table.

(5)

Q.3 : a) What are the types of Pop-up boxes supported by JavaScript. Explain them with the help of a program.

(5)

b) Explain the types of selectors used in CSS with example.

(5)

Q.4 : a) Write a program to accept an Email address from the user in an HTML form and then validates it.

(6)

b) Explain the lifecycle and architecture of a Servlet.

(4)

END TERM EXAMINATION

SIXTH SEMESTER [B.TECH] JUNE 2024

Paper Code:CIE-356T

Subject- Web Technologies

Time: 3 hours

Max. Marks: 75

Note : Attempt five questions including Q. No. 1 which is compulsory. Select one Question from each Unit. Assume suitable missing data if any.

- Q1** Answer the following: (5x5=25)
- What is Javascript ?
 - What is XML?
 - What is an event in javascript?
 - How can you set background images in HTML?
 - What are the form elements in HTML?

UNIT-I

- Q2** a) How many types of list in HTML and Explain with HTML Code. (6.5)
 b) What are the XHTML and DHTML? (6)
- Q3** a) Write a program- (6.5)
 i) To add a button on a form.
 ii) To add an order list in page.
 b) Write a program, to create a frame using Percentage(%). (6)

UNIT-II

- Q4** a) What is CSS and why it is so useful rather than simple HTML and Explain with suitable examples. (6.5)
 b) How to convert HTML into XHTML. (6)
- Q5** a) Define Cookies and what is a cookie servlet. (6.5)
 b) What is HTML and what types of pages are created with the help of HTML. How are these pages different? (6)

UNIT-III

- Q6** a) Explain the concept of session define session tracking and session hijacking. (6.5)
 b) Explain the difference between servlet and applets. (6)
- Q7** a) What is JDBC and DTD? (6.5)
 b) What are the types of JSP directives? (6)

UNIT-IV

- Q8** a) Explain JSP in detail. (6.5)
 b) Explain variables in PHP. (6)
- Q9** a) Write a program in PHP using Array. (6.5)
 b) Explain the exception handling in PHP (6)

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END TERM EXAMINATION

SIXTH SEMESTER [B.TECH] JULY 2023

Paper Code: ETCS-308

Subject: Web Engineering/Web Technology

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q. No. 1 which is compulsory. Select one question from each unit.

- Q1 (a) State the lifecycle of Servlet. (5)
(b) How to prevent Cross site Scripting? (5)
(c) Explain the components of CSS with example. (5)
(d) Describe BIBA security model. (5)
(e) Explain how Fuzzers work. (5)

UNIT-I

- Q2 (a) Compare POP3 and IMAP. (5)
(b) Design a webpage for railway ticket reservation using XHTML. (7.5)
- Q3 (a) Briefly explain HTTP request messages. (2.5)
(b) Illustrate with an example styling of an HTML webpage. (5)
(c) What is the difference between XML DTD and XML schema. (5)

UNIT-II

- Q4 (a) Write a program to add and display cookies using JSP. (8)
(b) Explain event handling in JavaScript. (4.5)
- Q5 (a) Display HELLO name, where the name is retrieved from a "user form". (6.5)
(b) What is JSTL? (2.5)
(c) Describe Servlet architecture. (3.5)

UNIT-III

- Q6 (a) What is a Cookie? What is Cookie Poisoning? How can it be prevented? (6.5)
(b) Explain the term "Session management". (3)
(c) How Certification works? (3)
- Q7 (a) What is the purpose of a web application firewall? What are its limitations? (6.5)
(b) Discuss and differentiate authentication and authorization. (6)

UNIT-IV

- Q8 (a) Illustrate the latest trends in Web Technology. (6.5)
(b) State the key features of semantic web. (6)
- Q9 (a) Describe briefly how ubiquitous web affects our society. (6.5)
(b) Discuss the evolution of Web Technology. (6)

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END TERM EXAMINATION

SIXTH SEMESTER [B.TECH] APRIL-MAY 2019

Paper Code: ETCS-308

Subject: Web Engineering/Web Technology

Time : 3 Hours

Maximum Marks :75

Note: Attempt any five questions including question no. 1 which is compulsory.

- Q1 (a) Differentiate between HTML, XHTML and XML. (5)
(b) How to prevent Cookie poisoning? (5)
(c) Explain the functioning of POP3. (5)
(d) Describe different types of fuzzers. (5)
(e) What are the applications of Web Technology in distributed systems? (5)
- Q2 (a) Describe CSS Box Model with an example. (7.5)
(b) Illustrate XML and XSLT with an example. (4.5)
- Q3 (a) Explain Document Object Model. (8)
(b) Explain event handling in JavaScript.
- Q4 Create a form in HTML which includes three text controls (for name, email, phone no.), a select control (for department) and a submit control. Also validate the name, email and phone no. field using JavaScript. (12.5)
- Q5 (a) Write a program to print HELLO CSE using servlet. (5)
(b) State the life cycle of a servlet. (2.5)
(c) What are the different tags in JSP? (5)
- Q6 (a) Explain Web Application Firewall and its types. (6.5)
(b) Describe the procedure of session management. (6)
- Q7 (a) What are the different types of web security threats and how are they prevented? (8)
(b) Explain the applications of Plug-in. (4.5)
- Q8 (a) What is the social impact of development of Web Technologies? (5)
(b) Compare Web 1.0, Web2.0 and Web3.0. (5)
(c) What is web tracking? (2.5)

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END TERM EXAMINATION

SIXTH SEMESTER [B.TECH] MAY-JUNE 2018

Paper Code: ETCS-308

Subject: Web Engineering

[Batch 2013 Onward]

Time : 3 Hours

Maximum Marks : 75

Note: Attempt any five questions including Q. no. 1 which is compulsory.

Q1 Attempt all

- (a) Describe basic HTML tags which are used in HTML head and HTML body. (Provide Example) (5)
- (b) Explain the scope of global and local variables in JavaScript. (Provide Example) (5)
- (c) What is CSS box model? Explain with a proper diagram. (5)
- (d) What are the types of security threats possible at front end level (browser) and back end level (server side)? (5)
- (e) Describe how Web 1.0, web 2.0 and Web 3.0 are different. (5)

Q2 (a) How can we perform internal page linking and external page linking? Explain with examples for both the cases. (6)
(b) Write HTML code and use internal styling to create basic table structure as below: (6.5)

| Monday | | Wednesday | |
|-----------|----------|-----------|----------|
| 9-11 (AM) | 2-4 (PM) | 9-11 (AM) | 2-4 (PM) |
| C | C++ | Java | Python |

Q3 Write code for document named as filename.html and filename.js script and perform following steps: (12.5)

Create a form element in filename.html. Include below control elements inside the form:

- (i) One control element for accepting the full name.
- (ii) One control element for accepting the phone number.
- (iii) One control element which accepts the date as the date of birth.
- (iv) One combo box (dropdown) for accepting multiple hobbies from the list.
- (v) One button to submit the form.
Perform following validation on pressing submit option in filename.js:
 - (vi) Name control should not be empty.
 - (vii) Phone number control should contain only numbers of length 10 digits.

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END TERM EXAMINATION

SIXTH SEMESTER [B.TECH] MAY- JUNE 2017

Paper Code: ETCS-308

Subject: Web Engineering

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q.No1 which is compulsory.

- Q1 (a) State the difference between Internet and World Wide Web. (2)
(b) What is the difference between HTML and XHTML? (2)
(c) What are the different components of CSS? (3)
(d) What is NaN? (1)
(e) Name any three predefined JSP tags. (3)
(f) Briefly explain lifecycle of a Servlet? (3)
(g) What are Plugins? (2)
(h) What are the technologies used in Web 2.0? (3)
(i) What are widgets? (2)
(j) What do you mean by parameter tampering? (2)
(k) What is fuzzer? (2)
- Q2 (a) What are the limitations of HTML? (4)
(b) Describe CSS Box Model with an example. (5)
(c) Explain DHTML and its features. (3.5)
- Q3 (a) Discuss XML and XSLT with an example. (7.5)
(b) What is DTD? (2.5)
(c) What is WML? (2.5)
- Q4 (a) Create a student registration form in HTML and validate the name and email field using JavaScript. (7.5)
(b) Explain the concept of event handling in JavaScript. (5)
- Q5 (a) Explain the architecture of Servlets? Differentiate between doPost() and doGet(). (3.5+4=7.5)
(b) Write a program to print HELLO WORLD using JSP. (5)
- Q6 (a) What are the primary security controls? (4.5)
(b) What are the different types of security threats and what are their possible solutions? (4+4=8)
- Q7 (a) What is session management? What is session hijacking? How can it be prevented? (6.5)
(b) What are the features Wireless Application Firewalls? (6)
- Q8 (a) Explain web syndication. (6)
(b) Why Web 3.0 is referred as semantic web? How is web 3.0 different from Web 2.0? (2.5+4=6.5)

END TERM EXAMINATION

SIXTH SEMESTER [B.TECH] MAY - JUNE 2016

Paper Code: ETCS-308

Subject: Web Engineering

Time: 3 Hours

Maximum Marks: 75

Note: Attempt any five questions including Q.No 1 which is compulsory.

Q1 Attempt all:

- (a) How does XHTML differ from HTML? (5)
- (b) Differentiate between server side scripting and client side scripting. (5)
- (c) Explain the usage of Plugins, extensions, and web apps. (5)
- (d) How does the JMS API Work with the JAVA EE Platform? (5)
- (e) List two advantages and two disadvantages of dynamic script loading(5)

Q2 (a) Discuss the application of Web Engineering Technologies in distributed systems. (6)
 (b) Explain and discuss the various issues in WEB Security. (6.5)

Q3 Create a HTML form that has the following controls: (12.5)

- A TEXT control called firstName to collect the first name.
- A TEXT control called lastName to collect the last name.
- A TEXT control called email to collect the email address.
- A TEXT control called phone to collect the phone number.
- A SELECT control called software for displaying a combo box with software list.
- A SELECT control called os for displaying a combo box with operating systems.
- A TEXTAREA control called txtArea for displaying problem description.
- A SUBMIT control called submit for submitting the information.

Q4 (a) Discuss and explain Web security model in detail. (6.5)
 (b) Explain the following:
 (i) HTTPS and certificates
 (ii) HTTP security extensions (6)

Q5 Explain the following in respect to JAVA (12.5)
 (a) JAVA Servlets
 (b) Intrinsic event handling
 (c) JSP

Q6 Define the following terminology- (12.5)
 (a) Document trees
 (b) CSS style sheets
 (c) DNS and URL

Q7 (a) Discuss the procedure to maintain the concurrency issues in a Website? (6.5)
 (b) Explain any tool for maintaining Server-side security and client side security. (6)

Q8 Write short notes on any two of the following:- (6.25x2=12.5)
 (a) Web application Firewalls (WAFs) and Fuzzers
 (b) Latest Trends in Web Technologies
 (c) Web attacks and their prevention
