

JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular), November, 2017
B. Tech. in Computer Science & Engineering, Semester V

Roll No.....

Web Technologies : CSE505

Time: 3 hours

Max. Marks: 100

Instructions to students:

1. Do not write anything other than your roll number on question paper.
 2. Assume suitable data wherever required and mention it clearly.
 3. Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.
-

Q.1A Objective type multiple choice questions (10 questions @ 1 mark) 10

- i. Dynamic web page
 - a) is same every time whenever it displays
 - b) generates on demand by a program or a request from browser
 - c) both (a) and (b)
 - d) none of the mentioned
- ii. Common gateway interface is used to
 - a) generate executable files from web content by web server
 - b) generate web pages
 - c) stream videos
 - d) none of the mentioned
- iii. What is document object model (DOM)?
 - a) convention for representing and interacting with objects in html documents
 - b) application programming interface
 - c) hierarchy of objects in ASP.NET
 - d) none of the mentioned
- iv. A webpage displays a picture. What tag was used to display that picture?
 - a) picture
 - b) image
 - c) img
 - d) src
- v. Which one of the following statements is false?
 - a) In JavaScript, identifier names are case sensitive.
 - b) B. JavaScript code can appear in both <head> and <body> sections.
 - c) C. External JavaScript file can be linked using the <link> element.
 - d) D. JavaScript can be turned off by the users concerning of security.
- vi. The style rule li, em {color: blue} indicates the content of ____ will appear in blue color.
 - a) Both and elements
 - b) Any elements that are inside a element
 - c) The first element that is inside a element
 - d) D. The <li em> element

- vii. Comment in XML document is given by
 - a) <?-- -->
 - b) <!-- --!>
 - c) <!-- -->
 - d) D. </-- -- >
- viii. There is a way of describing XML data, how?
 - a) XML uses a DTD to describe the data
 - b) XML uses XSL to describe data
 - c) XML uses a description node to describe data
 - d) Both A and C
- ix. JavaScript is ideal to
 - a) make computations in HTML simpler
 - b) minimize storage requirements on the web server
 - c) increase the download time for the client
 - d) none of the mentioned
- x. To create Web Pages we use a term, called
 - a) TCP/IP
 - b) WWW
 - c) HTML
 - d) FTP

Q.2 Short answer type questions (4 questions @ 2.5 marks)

10

- A. What are the various styles in CSS?
- B. What are the advantages of XML over HTML?
- C. Explain Domain Name Server by using example.
- D. Differentiate between SMTP and IMAP.

Q.3A Discuss the significance of multimedia in web design. How many alert dialogs will the following Javascript generate, and what will be displayed in each of them?

5

```
var x = "10";
function f(){
  var x = "4";
  alert(this.x);
  function g(){alert(x);}
  g();
}
f();
```

Q.3B Explain web service architecture considering model, view and controller using underlying examples. How to access database from JSP page?

05

Q.4A Describe the situations of using External Style Sheets, Embedded (Internal) Style Sheets and Inline Styles. Use both CSS and HTML code to explain how to use each type of the styles.

05

Q.4B Elaborate Document object model? Discuss the various DOM methods used with javascript.

05

- Q.5A Explain how basic and nested tables are created using HTML. Discuss the history of Internet and World Wide Web. 05
- Q.5B Explain the four possible keywords in a DTD declaration with suitable examples. 05
- Q.6A Write a PHP code to validate the form consisting of a username, password and email fields. 05
- Q.6B Create a HTML which uses CSS that gives all H1 and H2 elements a padding of 0.5 cms; complete border style and a margin of 0.5 cms. 05
- OR
- Q.6B Write a PHP Code to determine the circular left shift of a given number. 05
[Eg: 346 is a given number, the circular left shift will be 463.]
- Q.7A Differentiate between E-Commerce and E-Business. Describe various E-Business models. 05
- Q.7B Differentiate between Web Server and Web Client. Describe Search Engine Optimization using relevant example. 05
- OR
- Q.7B Explain with an example, how can you check an XML document is both valid and well-formed document? 05
- Q.8A Write a JavaScript code to validate a user by considering username as "ABC" and password as "XYZ". Assume username and password is getting from the form element. Design the static web page that display a marks table with three rows and three columns as shown below: 10
- | | | |
|----|----|----|
| M1 | M2 | M3 |
| 50 | 60 | 70 |
| 91 | 86 | 80 |
- Also compute average percentage of class.
- Q.9A Describe history of Internet and World Wide Web. Explain the significance of POP3, MIME, and HTTP. 10
- Q.9B Differentiate between CGI and Servlet. Discuss the importance of Servlets. Explain how to design a basic functionality of displaying message using Servlets. 10
- OR
- Q.9B Explain the significance of multimedia in web design. Describe WSDL under web services. 10