

Web Technologies

Assignment Questions

UNIT-1

- 1) Write the characteristics of DHTML. [3M]
- 2) What are the different types of lists in HTML? [4M]
- 3) What are the benefits of using styles compared with placing formatting directly into the text of the Web page? [4M]
- 4) Describe the primitive data types that Java script uses. [3M]
- 5 a) 'Javascript is referred to as Object based programming language'. Justify with an example. [4M]
- b) Explain how basic and nested tables are created using HTML. [8M]
- c) Why doPut() method is preferred over doGet() method? [4M]
- 6 a) Write a script that asks the user to enter two numbers, obtains the two numbers from the user and outputs text that displays the sum, product, difference and quotient of the two numbers. [4M]
- b) Explain the classification of HTML tags with examples. [8M]
- c) Describe the scoping rules for the Java script. [4M]
- 7 a) Create a HTML which uses CSS that gives all H1 and H2 elements a padding of 0.5 ems; a grooved border style and a margin of 0.5 ems. [4M]
- b) What is Document object model? Discuss the various DOM methods used with javascript. [8M]
- c) Write a script that reads an integer and determines whether it is PRIME Number or Not. [4M]
- 8 a) Create a HTML form with five basic features. [3M]
- b) Write about the various Objects used in Java script. [8M]
- c) Define frame. Create a HTML page that displays multiple frames in a window. [5M]
- 9 a) Design the static web page that display a marks table with three rows and three columns as shown below:

| Marks1 | Marks2 | Marks3 |
|--------|--------|--------|
| 90 | 90 | 99 |
| 81 | 80 | 82 |

 [8M]
- b) Explain how events are handled in JavaScript. [8M]
- 10 a) Create a HTML document that displays a table of basketball scores at national games in which the team names have their respective team colors. The score of the leading/winning team should appear larger and in a different font than the losing team. Use CSS. [8M]
- b) 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. [8M]

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Assignment Questions

UNIT-2

- 1) Why XML uses both streaming and tree-based parsing? [4M]
- 2) What is PCDATA in XML? [4M]
- 3) Write the applications of XML. [3M]
- 4) What is Document Type Definition (DTD)? [4M]
- 5 a) Explain the various types of XML schema data types used. [4M]
- b) Show how SAX is an alternative method for parsing XML documents. Write [8M] its advantages.
- c) Explain the four possible keywords in a DTD declaration with suitable [4M] examples.
- 6 a) Create a DTD to display daily schedule of user. [3M]
- b) Write XML Schema for library information system. [8M]
- c) Discuss the various terms related to Document Type Definition. [5M]
- 7 a) Give a brief note on DOM parser. [3M]
- b) Design an XML schema for hospital information management. [8M]
- c) Explain how a DTD is created with an example. [5M]
- 8 a) Write about SAX Parser. [3M]
- b) Explain how XML is useful in defining data for web applications. [8M]
- c) Write the advantages of XML schemas over DTDs. [5M]
9. a) Discuss the important features of XML which make it more suitable than HTML for creating web related services. [8M]
- b) Explain the creation of namespaces in XML. [8M]
- 10 a) Explain with an example, how can you check an XML document is both valid and well formed document? [8M]
- b) What are the limitations of Document Type Definitions (DTDs)? How these limitations are overcome using XML schema? [8M]

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Assignment Questions

UNIT-3

- 1) What are the protocols used by AJAX? [4M]
- 2) Write the limitations of AJAX. [4M]
- 3) What is Script Manager in AJAX? [5M]
- 4) Differentiate between proxied and proxyless calls in AJAX. [4M]

- 5 a) Explain the UDDI web service in AJAX. [8M]
b) Discuss how the XMLHttpRequest can be cancelled in AJAX. [8M]
- 6 a) Discuss the security issues of AJAX. [8M]
b) Explain the SOAP web service in AJAX. [8M]
- 7 a) Is AJAX code cross browser compatible? Explain. [8M]
b) Discuss the role of WSDL web service in AJAX. [8M]
- 8 a) Is Ajax said to be a technology platform or is it an architectural style? Explain [8M]
b) Describe the Integration of PHP and AJAX with an example. [8M]
9. a) What is AJAX? When can we use AJAX? Explain with an example. [8M]
b) Explain the characteristics of WSDL and SOAP. [8M]
- 10 a) What are web services platform elements? Explain. [8M]
b) Create a simple Web Service that converts the temperature from Fahrenheit to Celsius and vice versa. [8M]

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Assignment Questions

UNIT-4

- 1) Differentiate between the 'BITWISE AND' operator and the 'LOGICAL AND' operator in PHP. [4M]
- 2) How to define a variable accessible in functions of a PHP script? [3M]
- 3) Differentiate between for and foreach statements in PHP. [4M]
- 4) How to pass a variable by reference in PHP? [4M]
- 5 a) Explain with an example program how to connect to a SQL Server database from a PHP script. [8M]
b) Write a PHP code to validate the form consisting of a username, password and email fields. [8M]
- 6 a) How the result set of Mysql be handled in PHP? [8M]
b) Write a PHP script to sort the elements of an array. [8M]
- 7 a) Explain the user defined functions in PHP with an example. [8M]
b) Write a PHP Code to determine whether a given number is an 'PERFECT NUMBER' or not. [Eg: 6 is a perfect number, since its factors including 1(not the number itself) sum to the number i.e., $1+2+3 = 6$] [8M]
- 8 a) Discuss the casting of data types in PHP. [8M]
b) Write a PHP script to retrieve the data from oracle database. [8M]
- 9 a) Explain with examples using of variables and constants in PHP. [8M]
b) Differentiate between GET and POST methods. How to create a database using PHP? [8M]
- 10 a) Discuss various types of control statements in PHP. [8M]
b) Explain with an example program how to connect to a SQL Server database from a PHP script? [8M]

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Assignment Questions

UNIT-5

- 1) How the interpreter is used in Perl? [3M]
- 2) Write the features of CGI. [3M]
- 3) What are the arguments that are used frequently in Perl? [3M]
- 4) Mention the ways to express a string in Perl. [4M]

- 5 a) Discuss the features of Perl programming. [8M]
b) How to call and identify a subroutine in Perl? Explain with example. [8M]
- 6 a) What types of primary data structures are supported in Perl? Discuss. [8M]
b) How to search for a page using Perl language elements? [8M]
- 7 a) List and explain the operators used in Perl. [8M]
b) Write a Perl script to create a form to mail. [8M]
- 8 a) What are prefix dereferencers in Perl? Explain with examples. [10M]
b) Differentiate between Grooving & Shortening of arrays and Splicing of arrays. [6M]
- 9 a) Write a Perl program to connect to a MySQL database table and execute simple commands. [8M]
b) How to call and identify a subroutine in Perl? Explain with examples. [8M]
- 10 a) List out the categories of Perl functions. Explain any two functions for each category. [8M]
b) What are the requirements for CGI process? Illustrate the CGI working with a sample script. [8M]

Web Technologies Assignment Questions

UNIT-6

- 1) How to create getter and setter methods in Ruby? [4M]
- 2) Differentiate between a has_one and belongs_to association in Ruby? [4M]
- 3) How does a symbol differ from a string in Ruby language? [3M]
- 4) List the data types supported in Ruby language. [3M]
- 5 a) Explain the creation of iterators in Ruby with examples. [8M]
b) Discuss the multi dimensional arrays in Ruby programming. [8M]
- 6 a) Define class. Explain how to create a class and its objects in Ruby. [8M]
b) With an example program explain Pattern Matching in Ruby. [8M]
- 7 a) Discuss about simple I/O statements in Ruby. [8M]
b) Explain Hashes and Methods in Ruby with examples. [8M]
- 8 a) How would you declare and use a constructor in Ruby? [8M]
b) Explain the looping structures available in Ruby. [8M]
- 9 a) What are the three levels of method access control for classes? What do they signify? Explain. [8M]
b) Write Ruby program which uses Math module to find area of a triangle. [8M]
- 10 a) Explain the polymorphic association in Ruby with an example. [8M]
b) Write a Ruby program to create associative arrays. [8M]