

Course Code: CS368**Course Name: WEB TECHNOLOGIES**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer all questions, each carries 3 marks.*

Marks

- | | | |
|---|--|-----|
| 1 | Explain the role of web servers in web technology. | (3) |
| 2 | Explain URL with an example. | (3) |
| 3 | Explain the difference between HTML and XHTML. | (3) |
| 4 | Explain the importance of alt attribute for tag. | (3) |

PART B*Answer any two full questions, each carries 9 marks.*

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|---|---|-----|
| 5 | a) What is MIME? Describe how is it useful. | (4) |
| | b) Explain image hyperlink with an example. | (3) |
| | c) Explain <blockquote> tag with an example. | (2) |
| 6 | a) HTTP request and response message structure. | (4) |
| | b) Design a webpage that display the table: | (5) |

Food Item	Recommended Intake			
	age<15		age>15	
	gm	Kcal	gm	Kcal
Cerials	1000	2000	750	1760
NonCerials	450	800	350	600

- | | | |
|---|---|-----|
| 7 | a) Explain CGI and how it works. | (4) |
| | b) Design an HTML page that display the list: | (5) |

- Animals
 - Vertebrates
 1. Warm Blooded
 2. Cold Blooded
 - Invertebrates
 1. With Jointed Legs
 2. Without Legs
- Plants
 - Flowering Plants
 - Non-Flowering Plants

PART C

Answer all questions, each carries 3 marks.

- 8 Write a CSS rule that makes all text 1.5 times larger than the base font of the system and colors the text red. (3)
- 9 Add an embedded style sheet to an HTML document that should contain a rule that displays h1 elements in blue. In addition, create a rule that displays all links in blue without underlining them. (3)
- 10 Explain sort() method in JavaScript with examples. (3)
- 11 Does jQuery help in writing JavaScript code? Justify your answer. (3)

PART D

Answer any two full questions, each carries 9 marks.

- 12 a) Explain different levels of style sheets with examples. (6)
b) Explain array creation in JavaScript with examples. (3)
- 13 a) Explain box model of elements in a web document. (5)
b) Explain various String properties and methods present in JavaScript. (4)
- 14 a) Explain class selector and id selector with examples. (4)
b) Write JavaScript program to find factorial of a number. Use prompt dialog box to get the input from user and use confirm dialog box to check whether user wants to continue or not. (5)

PART E

Answer any four full questions, each carries 10 marks.

- 15 a) What is well formed XML document? Give an example. (2)
b) Explain how to use functions in a PHP program with an example. (3)
c) Explain any five string functions used in PHP. (5)
- 16 a) Explain advantages of XML Schema over DTD. (2)

- b) Compare JSON and XML. (2)
- c) Explain different methods to create Array in PHP with examples. (6)
- 17 a) Design a DTD for employee schema which consist of Name, Job, Department, Salary and Cubicle. Each employee should have an id. (5)
- b) Write a PHP program to check whether a number is prime number or not. (5)
- 18 a) Explain how complex data type is defined in an XML Schema with an example. (5)
- b) How does a PHP array differ from an array in C? Explain any 4 functions that deals with PHP array. (5)
- 19 a) How can CSS be used to display an XML document? Illustrate with an example. (5)
- b) Describe how input from an XHTML form is retrieved in a PHP program, with an example. (5)
- 20 a) What is the use of XSLT? How is it processed? (5)
- b) What are the uses of cookies in web pages? Describe syntax for setting cookies in PHP. (3)
- c) Write a PHP script to count the instances of words in a string. (2)
