

2023

WEB AND INTERNET TECHNOLOGY

Full Marks: 100

Time: 3 (Three) hours

The figures in the margin indicate full marks for the questions.

Question 1 is compulsory (A, B & C). Answer any three questions from rest.

1. A Multiple Choice Question 1 x 20 = 20
- i) Which one is true for the <!DOCTYPE> declaration
- All html must starts with <!DOCTYPE> declaration.
 - It is an information to the browser about the document type to expect.
 - <!DOCTYPE html> means the html document is an html 5
 - All of the given
- ii) How many sizes of headers are available in HTML by default?
- 5
 - 6
 - 4
 - 1
- iii) How to create an ordered list in HTML?
-
 -
 -
 - <list>
- iv) What is the effect of the tag?
- It is used to write black-colored font.
 - It converts the text within it to bold font.
 - It is used to change the font size.
 - None of the given.
- v) How are quotations defined in HTML?
- <quote>
 - <block>
 - <blockquote>
 - <quotations>
- vi) CSS stands for –
- Cascade style sheets
 - Color and style sheets
 - Cascading style sheets
 - None of the above
- vii) Which of the following is the correct syntax for referring the external style sheet?
- <style src = example.css>
 - <style src = "example.css" >
 - <stylesheet> example.css </stylesheet>
 - <link rel="stylesheet" type="text/css" href="example.css">

- viii) The HTML attribute used to define the internal stylesheet is –
- `<style>`
 - `style`
 - `<link>`
 - `<script>`
- ix) Which of the following is the correct syntax to make the background-color of all paragraph elements to yellow?
- `p {background-color : yellow;}`
 - `p {background-color : #yellow;}`
 - `all {background-color : yellow;}`
 - `all p {background-color : #yellow;}`
- x) Inside which HTML element do we put the JavaScript?
- `<javascript>`
 - `<scripting>`
 - `<script>`
 - `<js>`
- xi) What is the correct JavaScript syntax to change the content of the HTML element below?
- ```
<p id="demo">This is a demonstration.</p>
```
- `document.getElement("p").innerHTML = "Hello World!";`
  - `document.getElementById("demo").innerHTML = "Hello World!";`
  - `document.getElementByName("p").innerHTML = "Hello World!";`
  - `#demo.innerHTML = "Hello World!";`
- xii) Where is the correct place to insert a JavaScript?
- Both the `<head>` section and the `<body>` section are
  - The `<head>` section
  - The `<body>` section
  - None of the given
- xiii) What does PHP stand for?
- PHP: Hypertext Preprocessor
  - Personal Hypertext Processor
  - Private Home Page
  - None of the given
- xiv) How do you create a laravel project?
- `composer create-project laravel/laravel MyApp`
  - `laravel new MyApp`
  - Both a and b
  - None of the given
- xv) What is the purpose of the `.env` file in Laravel?
- It stores environment specific configuration settings
  - It contains the project's dependencies
  - It holds the project's route definitions
  - It stores the project's version number
- xvi) What is the command to generate a new controller in Laravel?
- `php create-controller`

- b. php artisan make:controller
  - c. composer generate:controller
  - d. php make controller
- xvii) What is the command to run migrations in Laravel?
- a. php migrate
  - b. php artisan migrate
  - c. php run-migrations
  - d. laravel migrate
- xviii) Where do you modify the routes of web based app in Laravel?
- a. Inside routes/api.php
  - b. Inside routes/web.php
  - c. Inside routes/framework.php
  - d. All of the above
- xix) What is the default view engine in Laravel?
- a. VueJS
  - b. NextJS
  - c. Blade
  - d. ReactJS
- xx) What is the full form of MVC?
- a. Make Visual Counter
  - b. Make View Controller
  - c. Model View Controller
  - d. None of the given

B State True or False

1 x 10 = 10

- i) CSS Can be included in the html in three ways: external, internal and inline. True/False
- ii) Vue and Next are JavaScript frameworks whereas Laravel and Angular are PHP Framework. True/False
- iii) `<meta name="viewport" content="width=device-width, initial-scale=1.0">` is used to make a web page responsive. True/False
- iv) 

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |       |   |   |          |       |          |       |  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|---|---|----------|-------|----------|-------|--|
| Selector | Declaration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Declaration |       |   |   |          |       |          |       |  |
| h1       | {color:blue; font-size:12px;}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |       |   |   |          |       |          |       |  |
|          | <table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 0 5px;">↑</td> <td style="text-align: center; padding: 0 5px;">↑</td> <td style="text-align: center; padding: 0 5px;">↑</td> <td style="text-align: center; padding: 0 5px;">↑</td> </tr> <tr> <td style="text-align: center; padding: 0 5px;">Property</td> <td style="text-align: center; padding: 0 5px;">Value</td> <td style="text-align: center; padding: 0 5px;">Property</td> <td style="text-align: center; padding: 0 5px;">Value</td> </tr> </table> | ↑           | ↑     | ↑ | ↑ | Property | Value | Property | Value |  |
| ↑        | ↑                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ↑           | ↑     |   |   |          |       |          |       |  |
| Property | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Property    | Value |   |   |          |       |          |       |  |

The above snippet is for CSS syntax for selecting an element. With this only one of h1 element will be changed to font color blue and font size 12 px. True/False

- v) function declaration is used to define a function in PHP. True/False
- vi) In JavaScript let and var keyword is used to declare a variable. A variable declared with var may be redeclared later however let do not let you redeclared with the same name again. True/False
- vii) `CREATE USER jany IDENTIFIED BY 'doe';`  
The above statement will create a user doe with jany password in mysql. True/False
- viii) The ? symbol is used to create variable in PHP. True/False

- ix) Oracle DB is open source! True/False
- x) To serve a laravel server instance running on a remote you should run  
php artisan serve --host 0.0.0.0 True/false
- C Fill in the blanks 1 x 10 = 10
- i) Form data submitted using \_\_\_\_ method do not show in URL.
- ii) Insert the missing statement to get all the columns from the Customers table.  
\_\_\_\_ \* FROM Customers;
- iii) 

```
<?php
 ____ = "PHP";
 echo "I love $txt!";
?>
```
- iv) In JavaScript Variables defined with `const` cannot be \_\_\_\_.
- v) In JavaScript Types are \_\_\_\_.
- vi) In CSS \_\_\_\_ properties are used to generate space around an element's content, inside of any defined borders.
- vii) The full form of CSRF is \_\_\_\_.
- viii) \_\_\_\_ syntax is used to display variable \$name passed from controller in blade.
- ix) \_\_\_\_ and \_\_\_\_ are two frameworks of CSS.
- x) \_\_\_\_, \_\_\_\_ and \_\_\_\_ are three database engines.
- 2 a) What are HTML, HTML Elements, HTML Attributes? Explain with example. 10  
b) What are block level and Inline elements in HTML? How do you create lists in HTML? Differentiate between Ordered and Unordered List in HTML. 10
- 3 a) How do you add CSS styling in HTML? Explain with an example program. 10  
b) Write a JavaScript program using function to swap three numbers a = 10, b = 20, c = 30 and display the swapped values inside `<div id="result"></div>` 10
- 4 a) What is a PHP? Write the features of PHP. 10  
b) What are benefits of using Laravel framework? Give any 10 points. 10
- 5 a) Briefly explain the architecture of Laravel Framework. 10  
b) What type of application may be build using Laravel? Mention any ten application you can think of building applications using laravel. 10
- 6 Write short notes (any four) 5 x 4 = 20
- a) Model View Controller
- b) CSRF
- c) Docker/Kubernetes
- d) Bootstrap CSS
- e) Linux Apache MySQL and PHP (LAMP)
- f) Responsive UI

xxxXxxx