

NB:

1. Question No. 1 is compulsory and solve any THREE questions from remaining questions.
2. Assume suitable data if necessary.
3. Draw clean and neat diagrams.

Q1.

- |  | Marks |
|--|-------|
| a. Justify why Semantic elements are preferred over <div> element in HTML.             | 05    |
| b. How does the grid system work in bootstrap? Illustrate with the help of an example. | 05    |
| c. Explain JavaScript Variables and their scope with examples.                         | 05    |
| d. Describe the features of Laravel framework.   | 05    |

- Q2. a. Write an external CSS and link it with HTML code for the following task: 10

Set the color of all elements with the class color text, to red.  
Also write a media query to set the font-size of <div> to 80px when screen size is more than 600px wide and set the font-size of <div> to 30px when screen size is 600px wide, or less.

```
<body>
```

```
<h1>This is a heading</h1>
```

```
<div><p>This is a paragraph</p>
```

```
<p class="colortext">This is a paragraph</p>
```

```
<p class="colortext">This is a paragraph</p></div>
```

```
</body>
```

- b. Write an HTML code to create a registration form which accepts the details. Write JS Validations code. 10

- Q3. a. How to add object in array using JavaScript? 10
- b. How to use navigation bar in bootstrap? Explain with the help of an example. 10

- Q4 a. Consider the registration form of Q2 (b) and write a PHP code to store this information in the table using MySQL database and perform SQL operations such as select, update, and delete for the stored data. 10
- b. List down the jQuery utility functions. Explain any 2 with the help of an example. 10
- Q5 a. Explain JavaScript Variables and their scope with examples. 10
- Explain DOM objects in JavaScript.
- b. Differentiate between JavaScript and Angular JS. 10
- Q6 a. Write PHP program to create Login and Logout using Sessions. 10
- b. Explain MVC architecture with the help of an example. List the advantages and disadvantages. 10

\*\*\*\*\*