

Time : 3 Hrs

Marks : 80

N.B: (1) Question No. 1 is compulsory

(2) Attempt any three questions out of remaining five questions

- Q1 a) What is the URL? Explain different parts of it. [5]  
b) What do you mean by Web Service? What are the advantages and challenges of using web services? [5]  
c) Write a PHP program to find whether a given number is prime or not [5]  
d) What are different getters and setters methods in JQuery? Explain any 2 methods with example. [5]
- Q2 a) What are different types of lists supported by Bootstrap? Explain by giving proper code for each type. [10]  
b) Explain in how many ways CSS can be added in the HTML document? [10]
- Q3 a) What are cookies? How is the session managed using cookies? Explain with the help of an example. [10]  
b) Compare and contrast AJAX application model and traditional application web model. [10]
- Q4 a) Explain the core building blocks of web services architecture. [10]  
b) Draw and explain format of HTTP request and response message. [10]
- Q5 a) What is Servlet? Explain the life cycle of Java Servlet. [10]  
b) What is Model View Controller architecture? Explain with a diagram. [10]
- Q6 a) Create a HTML form that accepts Emp\_Id, First\_Name(text field), Last\_Name(text field), address(text area) and Gender(radio botton), Department Name(drop down list) from the user. Create a submit button to submit the details filled by the user and and reset button to clear the form values. [10]  
b) What are different types of arrays created in PHP? Explain with examples. [10]

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