

Time: 3 Hours

Max. Marks: 80

Instructions:

- 1) Question No. 1 is compulsory
- 2) Attempt any three questions out of remaining five questions

- Q.1** (a) Write a PHP program to find the factorial of a given number. [5]
(b) What are the different types of web services? What are the essential features of Web services? [5]
(c) Compare and contrast GET and POST method in Java Servlet? [5]
(d) Explain the syntax of the PHP program with an example. [5]
- Q.2** (a) What is CSS? Differentiate between inline, embedded and external style sheets with example. [10]
(b) How many types of layout are available in Bootstrap? Explain with examples. [10]
- Q.3** (a) What is an array? Explain how different types of arrays are created in PHP with examples. [10]
(b) List and explain different ways of adding java script code in HTML documents with an example? [10]
- Q.4** (a) Explain three tier web architecture with a proper diagram. [10]
(b) Explain about the standards and technologies for implementing the web services. [10]
- Q.5** (a) Explain the life cycle of servlet with a neat and properly labeled diagram. Also Explain different methods invoked at different stages. [10]
(b) Draw the diagram of AJAX application model and traditional application web model and compare them. [10]
- Q.6** (a) List and explain various properties for CSS Animation with example. [10]
(b) What is MVC? Explain the Model View Controller architecture with a neat diagram. [10]