

**R15**

Code No: 824AA

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA IV Semester Examinations, January – 2018****WEB TECHNOLOGIES****Time: 3hrs****Max.Marks:75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART - A****5 × 5 Marks = 25**

- 1.a) Write about scope of a variable in PHP. [5]
- b) Differentiate between internal DTD and external DTD. [5]
- c) Write and explain steps for deploying a Servlet program in tomcat web server. [5]
- d) Explain about JSP implicit Objects. [5]
- e) Write short note on AJAX. [5]

**PART - B****5 × 10 Marks = 50**

- 2.a) Explain Conditional Statements in PHP.
- b) Write a PHP program for File Handling. [5+5]

**OR**

- 3.a) Explain types of Arrays in PHP.
- b) Write about PHP Session handling. [5+5]

- 4.a) Write a program to parse the XML file using SAX Parser.
- b) Explain in detail about defining XML tags. [5+5]

**OR**

- 5.a) Differentiate between DOM and SAX Parsers.
- b) Explain in detail the various types of XML Elements and Attributes. [5+5]

- 6.a) Write a Servlet program for reading initialization parameters.
- b) List and explain the classes of javax.servlet.http Package. [5+5]

**OR**

- 7.a) Write about advantages of Servlets over CGI.
- b) Explain the steps to connect a database using JDBC. [5+5]

8. Explain the anatomy of JSP page in detail. [10]

**OR**

- 9.a) Write a program to use Beans in JSP Pages.
- b) Explain about onclick and onsubmit event handling. [5+5]

- 10.a) Write about Java Script Math Object.
- b) Explain a Java Script program using AJAX. [5+5]

**OR**

- 11.a) List and explain types of Popup Boxes in Java Script.
- b) Explain functions in Java Script. [5+5]