

**Code No: 126VP****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, December - 2018****WEB TECHNOLOGIES****(Common to CSE, IT)****Time: 3 hours****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****(25 Marks)**

- 1.a) What are the data types supported by PHP? [2]
- b) List various types of arrays supported by PHP. How to declare arrays in PHP? [3]
- c) Write in brief about XHTML. [2]
- d) What is XML? List characteristic features of XML. [3]
- e) State the differences between GET and POST methods. [2]
- f) Develop a servlet that handles an HTTP GET request. [3]
- g) What are JSP Implicit Objects? [2]
- h) How JSP resolves the problems with Servlets? [3]
- i) What is Document Object Model? [2]
- j) Explain the scope of variable. [3]

**PART - B****(50 Marks)**

- 2.a) Explain database connectivity in PHP with reference to MYSQL. [5+5]
  - b) How to execute a simple query in PHP? Illustrate. [5+5]
- OR**
- 3.a) State the rules for declaring variables in PHP. [3+7]
  - b) Write a PHP program for a simple calculator. [3+7]
- 4.a) What is XML Schema? State its purpose and list its advantages over DTD [3+7]
  - b) Describe XML schema for designing a Web page as an illustration. [3+7]
- OR**
- 5.a) What is a 'XML Parser'? [2+8]
  - b) Explain in detail how XML data is parsed with an example. [2+8]
- 6.a) What are the advantages of Servlets over CGI? [4+6]
  - b) What is a 'servlet'? Explain the life cycle of a servlet with an example servlet program. [4+6]
- OR**
- 7.a) Demonstrate the use of cookies in servlets with an example. [4+6]
  - b) Write a servlet program to retrieve data from the database. [4+6]

- 8.a) How to declare and use variables in JavaScript?  
b) What are JSP Code snippets? Develop a JSP program to display current date and time. [3+7]

**OR**

- 9.a) Write in very brief about JSP processing.  
b) How to access a database from a JSP? Explain in detail. [2+8]

- 10.a) How is Client side Java Script different from Server side Java Script?  
b) Write a simple AJAX application. [3+7]

**OR**

- 11.a) What is JavaScript? What are the features of JavaScript?  
b) Write a JavaScript to display whether given number is a prime or not. [3+7]

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