

**R13**

Code No: 126EP

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2017

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 is PHP? What are the common uses of PHP? [2]
- b) How to declare a string in PHP? List various string functions in PHP. [3]
- c) State rules to define tags in XML. [2]
- d) What is DTD? Distinguish between internal DTD and external DTD. [3]
- e) How is a Servlet different from an Applet? [2]
- f) Write about servlet API. [3]
- g) Provide an example for JSP expression. [2]
- h) How are cookies used for session tracking in JSP? [3]
- i) What is the scope of variables in JavaScript? [2]
- j) What is an 'event'? How are events handled in JavaScript? [3]

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

- 2.a) What are various operators supported by PHP.
  - b) Explain about the control structures in PHP with illustrations. [3+7]
- OR**
- 3.a) How to list the directories in PHP?
  - b) Explain about various file operations on text files in PHP. [3+7]
- 4.a) What is DOM?
  - b) Compare and contrast DOM parser with SAX Parser. [2+8]
- OR**
- 5.a) List any *two* XML tags with their attributes and values.
  - b) Collect the student's details such as, register number, name, subject and marks using forms and generate a DTD for this XML document. Display the collected information in the descending order of marks. Write XML source code for the above. [4+6]
- 6.a) What is JDBC? What are various drivers of JDBC?
  - b) Explain about the database connectivity using JDBC. [4+6]
- OR**
- 7.a) Develop a servlet that handles an HTTP POST request.
  - b) Discuss about Session tracking in Servlets with a suitable example. [5+5]

- 8.a) Describe the anatomy of a JSP page.  
b) Write a in brief about JSP Declarations. [7+3]
- OR**
9. Explain in detail of how to use Java Beans in JSP pages with suitable example. [10]
- 10.a) What is the need of scripting languages in Web Technologies?  
b) Write a program in JavaScript to convert temperature from Celsius to Fahrenheit and vice versa or Height from centimeters to inches and vice-versa. [2+8]
- OR**
11. Write about the following with reference to Java Script with an example:  
a) Functions  
b) Form Validation [5+5]

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