

**R16**

Code No: 136EN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2019

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) How do you reverse a string in PHP without using any built in functions? [2]
- b) What are the storage engines used by MySQL? [3]
- c) What is Document Object Model? [2]
- d) How does one link external style sheet in a XHTML document? [3]
- e) Write the purpose of cookies. [2]
- f) What is session tracking? Explain. [3]
- g) List down the advantages of Java beans. [2]
- h) How JSP page is compiled? [3]
- i) What is the scope of variables in java script? [2]
- j) How the keyword 'new' is used to create objects in java script? [3]

**PART - B**

(50 Marks)

- 2.a) Discuss about various functions used in PHP with examples.
- b) Write PHP code to create a login page for a web application. [5+5]

**OR**

- 3.a) Discuss about various types of PHP interpreters.
- b) Write a program in PHP to find out length of the string "This is my first program". [5+5]

- 4.a) Explain about XML core tags and flow control tags.
- b) Show how an XML schema can be created. [5+5]

**OR**

- 5.a) Explain the advantages of XML schemas over DTDs.
- b) Differentiate between DOM and SAX parsers in java. [5+5]

- 6.a) What is CGI? List the CGI environmental variables.
- b) Explain the life cycle of a Servlet with a neat sketch. [5+5]

**OR**

- 7.a) Discuss the process of deploying a web application.
- b) How to handle http request and responses? Explain. [5+5]

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- 8.a) Write about the components of JSP and explain.
- b) How to connect database connection through JSP? Illustrate with example. [5+5]

OR

- 9.a) Write in brief about JSP tag extensions and libraries.
- b) How to create and make use of beans in JSP pages? Demonstrate with example. [5+5]

- 10.a) Explain about objects, methods and events in java scripts.
- b) Write a java script to change text color of HTML elements. [5+5]

OR

- 11.a) What is the functioning of the java script keyword 'this' and 'dot' operator? Explain.
- b) Write a java script to validate a form consisting of a hall ticket number as username and mobile number as password. Also navigate to another web page after validation. [5+5]

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