

Code No: 156FV

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, August/September - 2024****WEB TECHNOLOGIES****(Artificial Intelligence and Data Science)****Time: 3 Hours****Max. Marks: 75**

- Note:** i) Question paper consists of Part A, Part B.  
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.  
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A****(25 Marks)**

- 1.a) What are the data types supported by PHP? [2]
- b) Explain how to declare arrays in PHP. [3]
- c) What is DTD? [2]
- d) Enumerate the differences between XML and HTML. [3]
- e) Define JDBC. [2]
- f) Discuss about HTTP Responses. [3]
- g) What is JSP expression? [2]
- h) What are implicit objects in JSP? [3]
- i) What is event handling? [2]
- j) Explain client side scripting. [3]

**PART – B****(50 Marks)**

- 2.a) Explain variables and operators with example in PHP.
  - b) Explain database connectivity in PHP. [5+5]
- OR**
- 3.a) How to read data from web form control like Text boxes? Explain with an example.
  - b) Explain the file operations opening, closing, reading and writing in PHP. [5+5]
- 4.a) Create a simple HTML page which demonstrates the use of the various types of lists. Try adding a definition list which uses an unordered list to define terms.
  - b) Give a note on SAX parsers in JAVA. [5+5]
- OR**
- 5.a) Explain the purpose of DTD. What are the limitations of DTD?
  - b) "XML Schemas depends on XML syntaxes for their Documentation", explain the feature and its advantages. [5+5]
- 6.a) Explain Life Cycle of a Servlet.
  - b) Develop a Servlet that handles an HTTP POST request. [5+5]
- OR**
- 7.a) How are HTTP requests and responses handled in Servlets.
  - b) Demonstrate the use of Cookies in Servlets with an example. [5+5]

- 8.a) Explain the components of JSP.  
b) Discuss the conditional processing in JSP application development. [5+5]

**OR**

- 9.a) What are implicit objects available to JSP page? Explain.  
b) How are java Beans deployed in a JSP page? [5+5]

- 10.a) Write a java script for checking the given number is prime or not.  
b) Explain the objects in java script. [5+5]

**OR**

- 11.a) With an example code, explain the ONCLICK event handlers in java scripting.  
b) Discuss about form validation in java scripting. [5+5]

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Sample paper Aug-2024