

Code No: 155DN**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, January/February - 2023****WEB TECHNOLOGIES****(Common to CSE, CSBS)****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) List any two advantages of PHP. [2]
- b) Explain the various types of arrays supported by PHP. [3]
- c) What is XHTML? [2]
- d) Explain the features of XML. [3]
- e) Enumerate the differences between a servlet and an Applet. [2]
- f) Explain the uses of Servlets. [3]
- g) What is the need of JSP page? [2]
- h) Explain the JSP expression using an example. [3]
- i) What is the scope of variables in java Script? [2]
- j) Explain the use of “this” operator in Java Script. [3]

PART – B**(50 Marks)**

- 2.a) With example, explain the different control structures used in PHP. [5+5]
 - b) Explain the execution of queries in PHP. [5+5]
- OR**
3. In detail, explain the various file handling operations in PHP. [10]
- 4.a) Define Document Type Definition (DTD) in XML. What is difference between internal and External DTD?
 - b) Give an overview of defining basic XML tags. [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) Present an overview of the servlet API.
 - b) Explain with suitable example how servlet handle:
 - i) HTTP get requests
 - ii) HTTP post requests. [5+5]
- OR**
- 7.a) Enumerate the differences between single threaded and multithreaded Servlet method.
 - b) What are sessions? How do you enable and disable sessions using JSP? [5+5]

- 8.a) Explain the anatomy of a JSP page.
b) Write brief note on JSP Declarations. [5+5]
- OR**
- 9.a) Explain the usage of java beans in a JSP page.
b) Explain how database is accessed using a JSP page. [5+5]
10. Explain the various operators and datatypes available in Java Script. [10]
- OR**
- 11.a) Explain the event handlers in Java Script.
b) Write a Java Script to check whether the given year (4 digit) is leap year or not. [5+5]

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