

**R20****Code No: 824AA****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA IV Semester Examinations, March/April - 2022****WEB TECHNOLOGIES****Time: 3 Hours****Max.Marks:75****Answer any five questions  
All questions carry equal marks**

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- 1.a) Explain various Loop Control Structures in PHP with syntax.  
b) Develop a PHP program to connect MySQL database and perform DML operations.[7+8]
- 2.a) Explain String operations in PHP with an example.  
b) Develop a PHP program to count the number of lines, words, character in the given file.  
[7+8]
- 3.a) What is a Parser? Compare and Contrast DOM and SAX Parsers.  
b) Explain with an example, how can you check an XML document is both valid and well formed document?  
[7+8]
- 4.a) What is a XML? Explain its features.  
b) Explain document object Model.  
[7+8]
- 5.a) Explain the Servlet architecture and the various life cycle methods invoked by the servlet container.  
b) List and explain the classes of javax.servlet package.  
[8+7]
- 6.a) Write and discuss a Servlet program for reading Servlet parameters and Reading initialization parameters.  
b) What is Session? Discuss how the Session management is supported by Servlets? [8+7]
- 7.a) What are JSP Directive Elements? Discuss each of them with an example.  
b) Explain how error handling and debugging will be done in JSP.  
[8+7]
- 8.a) Discuss in detail the predefined methods of DATE and STRING objects of Java Script with an example.  
b) Write about JavaScript operators.  
[8+7]

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