

R18

Code No: 155DM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, March - 2024

WEB PROGRAMMING

(Computer Science and Engineering – Artificial Intelligence and Machine Learning)

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 JavaScript data types? [2]
- b) Describe about HTML DOM. [3]
- c) Define class and object. [2]
- d) What are exceptions? How to avoid exceptions in Java? [3]
- e) Give the need of Registry objects. [2]
- f) Define socket. What are the classes used for socket programming? [3]
- g) How to pass parameter to an applet? [2]
- h) Illustrate the life-cycle of an applet and its methods. [3]
- i) List the advantages of XPATH. [2]
- j) Formulate the basic concepts behind JAX-RPC technology. [3]

PART – B

(50 Marks)

- 2.a) What are two ways of form validation? Explain in detail.
 - b) Discuss in detail about operators and expressions sin JavaScript. [5+5]
- OR**
- 3.a) List and explain methods of strings in JavaScript.
 - b) Distinguish between CSS and CSS3 in detail. [5+5]
- 4.a) What is OOP? What are features of Java? Explain in detail.
 - b) Explain about multithread programming in Java. [5+5]
- OR**
- 5.a) Describe string handling methods in Java with examples.
 - b) List and various operators used in java Programming. [5+5]
- 6.a) Discuss in detail about Batch Updates with an example.
 - b) Explain how java bean are used in application. [5+5]
- OR**
- 7.a) Illustrate the steps in developing a simple java bean.
 - b) With a neat sketch, explain the RMI architecture for an application. [5+5]

QA QA QA QA QA QA QA QA QA

- 8.a) Write a client server JSP program to find simple interest and display the result in the client.
b) Illustrate how java servlets perform session handling. [5+5]

QA QA QA QA QA QA QA QA QA

9. Using AWT create a frame which contains four text fields name, age, sex and qualification layout using the flow layout manager. Run the program and give the values of all text fields in the command line. Initially all the values of text field should be blank. On clicking the click button all the text fields should contain the command line inputs. [10]

QA QA QA QA QA QA QA QA QA

10. Get the students' details like name, register number and mark using form. Generate DTD for this XML document.

Name	Regno	Mark
Xyz	1000	90
Abc	1001	80
Rst	1002	89
Pqr	1003	87

QA QA QA QA QA QA QA QA QA

Generate the collected information in the descending order of marks using XSLT. Results should be displayed in the above format. Write a source code and explain the same. [10]

OR

11. Briefly discuss about XML and DTD. Write a DTD for employee details including employee name (first name and last name), employee ID, Date of Birth (month, date and year) and address (city and state). [10]

QA QA QA QA QA QA QA QA QA

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