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| **ST. JOSEPH’S UNIVERSITY, BANGALORE-27** |
| **MSc Computer Science–II SEMESTER** |
| **SEMESTER EXAMINATION: April 2023****(Examination conducted in May 2023** |
| **CS8321- Advanced Web Technologies****(For current batch students only)** |
|  |  |  |  |  |  |
| **Time- 2 hrs** |  | **Max Marks-60** |
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| **This paper contains two printed pages and three parts****PART A****Answer All the Questions. 5 \* 2=10**1. List the types of Style sheets.
2. ‘Javascript is referred to as Object based programming language’. Justify with an example.
3. Define LET and constant in ES6.
4. Distinguish between GET and POST methods.
5. Mention the components in react.

**PART B****Answer any FIVE. 5\*4=20**1. Design a Java script program to print reverse of any number.
2. Explain the external and internal style sheets in detail with example.
3. Create a HTML, which uses CSS that gives all H1 and H2 elements a padding of 0.5 ems; a grooved border style and a margin of 0.5 ems.
4. Demonstrate JavaScript with POP-UP boxes and functions for the following problems:

Input: Click on Display button using onclick( ) function Output: to display Sum of the Individual Digits in the text boxInput: A number n obtained using prompt Output: to check whether the given number is Palindrome or not using alert1. Explain how to add React Router in your application, run this in the terminal from the root directory of the application.
2. Prepare railway reservation form by using any one of the scripting languages.
3. Explain ES6 objects in detail.

**PART C****Answer any THREE. 3\*10=30**1. What is Document object model? Discuss its methods used with Java script.
2. a) Define an arrow function. (2+8)

b) Explain database connectivity methods used in ASP.net with an example.1. a) Demonstrate how Type Script can infer the types of properties based on their values. (5+5)

b) Write react program, to send props into a component.1. Write ES6 code to validate the following fields of the Registration page.

First Name (Name should contains alphabets and the length should not be less than 6 characters).Password (Password should not be less than 6 characters length).\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |