CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III–B.TECH–II–Semester End Examinations (Supply) - December- 2025
FULL STACK DEVELOPMENT
(IT)

[Time: 3 Hours]   **[Max. Marks: 60]**

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 10 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A   (10 Marks)

1. a)	Name the tag used to define a paragraph in HTML.	[1M]
b)	Which attribute is used to specify the destination URL in a link?	[1M]
c)	Which object is used to make HTTP requests in AJAX?	[1M]
d)	What is a constructor in JavaScript classes used for?	[1M]
e)	What hook is used to manage state in a functional component?	[1M]
f)	What is Redux used for in a React application?	[1M]
g)	What is the difference between int and Integer in Java?	[1M]
h)	In MVC, which component is responsible for displaying the data to the user?	[1M]
i)	What does the term "foreign key" mean in a relational database?	[1M]
j)	How does Spring JDBC handle exceptions?	[1M]

PART-B   (50 Marks)

2.a) What is HTTP? Explain any two HTTP request methods used by web servers.   [5M]

b) What are the different types of CSS? Explain with examples.   [5M]

OR

3.a) List and explain any five commonly used UNIX commands with examples.   [5M]

b) Explain the difference between git and github. Give one example of each.   [5M]

4.a) What is jQuery? Write the syntax to select an HTML element and change its text.   [5M]

b) What are event listeners in JavaScript? Write an example to handle a button click event.   [5M]

OR

5. Describe how to create a simple dropdown menu using HTML, CSS, and JavaScript or jQuery.   [10M]

6. Explain in detail about workflow of react and their component and provides with examples of each.   [10M]

OR

7.a) Describe how data is sent from a client to a server using *fetch()* in JavaScript. Write a simple example.   [6M]

b) What are props and state in React? Compare them with examples.   [4M]

8. Explain the spring MVC architecture in web development. How does it help in separating concerns and improving the maintainability of an application?   [10M]

OR

9. Describe the architecture of a RESTful API built with Spring Boot. Explain the role of the Controller, Service, and Repository layers in this architecture   [10M]

10. Describe how you would configure Spring JDBC in a Spring Boot application. Explain how JDBC Template works with an example of querying a database. [10M]

OR

11. Explain the process of agile development principles and deploying a application. Describe the steps involved. [10M]

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