D1ACA2505 **(1 Page)** **Name.....**
Reg. No.....

FIRST SEMESTER M.C.A. DEGREE EXAMINATION, NOVEMBER 2025

M.C.A.
MCA25105 - FULL STACK DEVELOPMENT

Time: 3 Hours **Maximum Marks: 100**

Answer any *five* questions. Each carries *twenty* marks.

1. a) Explain how to make responsive grid UI in Bootstrap5.

   b) Explain CSS Specificity rule.

2. a) Discuss the fundamental principles of react JS and JSX.

   b) Explain the features of Redux.

3. a) Write HTML5 code to design a form for online flight reservation system.

   b) What are the key characteristics of Remote Repository?

4. a) How do you create, manipulate and validate HTML forms using Java Script?

   b) Explain the basic concepts of Event Handling in Java script.

5. a) Explain the basic database operations in Mysql with suitable examples.

   b) What is nodeMailer? Explain its purpose.

6. a) Explain the features of Ajax and the different technologies used in Ajax.

   b) Explain XML documents and vocabularies.

7. a) Write short notes on:

      i) Uploading image to Mysql.

      ii) Retrieve image from Mysql.

   b) Explain how Bycrypt Hash works.

(5 × 20 = 100 Marks)