



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal-500043, Hyderabad

**B.Tech IV SEMESTER END EXAMINATIONS (REGULAR) - JULY 2022**

Regulation:UG20

## WEB APPLICATION DEVELOPMENT

**Time: 3 Hours**

**(Common to CSE(AIML)& CSE(DS) )**

**Max Marks: 70**

**Answer ALL questions in Module I and II**

**Answer ONE out of two questions in Modules III, IV and V**

(NOTE: Provision is given to answer TWO questions from among one of the Modules III / IV / V

**All Questions Carry Equal Marks**

**All parts of the question must be answered in one place only**

### MODULE – I

1. (a) Explain the way in which data can be presented in a tabular form using HTML. Identify how a scripting language differs from HTML? [BL: Understand| CO: 1|Marks: 7]
- (b) Develop a login form using HTML with following validations on password field : minimum length 8 characters, it should have some special character. [BL: Apply| CO: 1|Marks: 7]

### MODULE – II

2. (a) Make use of Bootstrap features by giving an example for each:
  - i) Bootstrap Carousel Plugin
  - ii) Bootstrap Navigation bar
  - iii) Bootstrap alert messages [BL: Understand| CO: 2|Marks: 7]
- (b) Explain why to choose Bootstrap for building the websites? Give an example of a basic grid structure in Bootstrap. [BL: Understand| CO: 2|Marks: 7]

### MODULE – III

3. (a) Classify the JavaScript objects. List the important built-in objects. How can you write your own object? [BL: Understand| CO: 3|Marks: 7]
- (b) Develop a JavaScript program to read two numbers from the Text Boxes and to add/subtract upon clicking the corresponding buttons. The data must be validated before performing the add/subtract operation. [BL: Apply| CO: 3|Marks: 7]
4. (a) Demonstrate the basics of AJAX in the development of web application. [BL: Understand| CO: 4|Marks: 7]
- (b) Illustrate styles in separate CSS file and also show how to link this CSS file in HTML file and show use of styles.
  - i) The headings should have normal font style and font's size should be 120%
  - ii) Define a class arial for paragraph which defines font family arial and font style bold.
  - iii) Apply a background color yellow and apply a background image "browntile.jpg" [BL: Apply| CO: 4|Marks: 7]

## MODULE – IV

5. (a) Briefly explain the steps involved in the React-Server communication. How to re-render the view when the browser is resized? [BL: Understand| CO: 5|Marks: 7]  
(b) With the help of code snippet explain how the data is stored in local storage using React. [BL: Apply| CO: 5|Marks: 7]
6. (a) Summarize the different phases of the component lifecycle. With the help of a code snippet, explain the Color reducer component. [BL: Understand| CO: 5|Marks: 7]  
(b) Write down the program to create a switching component for displaying different pages. Summarize prop drilling in React. [BL: Apply| CO: 5|Marks: 7]

## MODULE – V

7. (a) Explain how the REDUX store works internally. Enumerate the create Slice REDUX APIs by giving an example. [BL: Understand| CO: 6|Marks: 7]  
(b) With the help of a code snippet explain how REDUX store implements dispatching actions. [BL: Apply| CO: 6|Marks: 7]
8. (a) How to integrate API in Redux? List the various steps involved in integrating REDUX with UI. [BL: Understand| CO: 6|Marks: 7]  
(b) Develop the configure store REDUX API by giving the code snippet. [BL: Apply| CO: 6|Marks: 7]

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