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Course Code: **201CS5J01**

ADITYA ENGINEERING COLLEGE (A)

B. Tech – V Semester End Examinations Regular (AR20) – DEC 2022

MEAN STACK TECHNOLOGIES (Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 70

Answer ONE question from each unit

All Questions Carry Equal Marks

All parts of the questions must be answered at one place only

UNIT – I

- 1 a Explain with syntax and example program the few features and tags available in HTML5. K2 CO1 [7M]
 b Write a HTML program to create a registration form with different form elements. K3 CO1 [7M]

OR

- 2 a Explain the working of HTML Table with 3 students information. Use cellpadding, cellspacing, border, colspan and rowspan attributes K2 CO1 [7M]
 b Write a HTML program to embed media elements in a web page. K3 CO1 [7M]

UNIT – II

- 3 a Explain Javascript conditional and looping statements with an example program. K3 CO2 [7M]
 b Explain the different types of objects available in Java Script. Write a program, that makes use of class, object, method, constructor for student information system. K3 CO2 [7M]

OR

- 4 a Explain the significance of Arrow function in Javascript with an example program. K3 CO2 [7M]
 b Explain Callbacks and Promises in Javascript with an example program. K2 CO2 [7M]

UNIT – III

- 5 a Explain Node.js process model to create a web server. K3 CO3 [7M]
 b Explain types of middleware in Express.js. K2 CO3 [7M]

OR

- 6 a Explain the working of NPM package manager in Node.js with an example. K2 CO3 [7M]
 b Explain the process of handling routes in Express.js with an example program. K2 CO3 [7M]

UNIT – IV

- 7 a Write a typescript program to explain parameter and return types of a function. K3 CO4 [7M]
 b Explain MongoDB structure and architecture with a neat sketch. K2 CO4 [7M]
 OR
8 a Write a typescript program to explain creating and using modules. K3 CO4 [7M]
 b Explain MongoDB CRUD operations with example queries. K3 CO4 [7M]

(P.T.O)

UNIT – V

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|---|---|---|----|-----|------|
| 9 | a | Explain data binding in Angular JS with an example program. | K3 | CO5 | [7M] |
| | b | Explain Dependency Injection with an example program. | K3 | CO5 | [7M] |

OR

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|----|---|---|----|-----|------|
| 10 | a | Explain ng-directives in Angular.js with an example program. | K3 | CO5 | [7M] |
| | b | Explain the process of integrating Mongo DB and PHP with an example program. Demonstrate routing in Angular JS with an example program. | K3 | CO5 | [7M] |

MODEL QUESTION PAPER