[6003]-712
T.E.I.T.
WEB APPLICATION DEVELOPMENT
(2019 Pattern) (Semester -II) (414464A)

Time :2½ Hours]

[Max. Marks : 70

Instructions to the candidates:
1) *Answer four questions.*
2) *Figures to right indicate full marks.*
3) *Assume suitable data, if necessary.*
4) *Neat diagram must be drawn wherever necessary.*

Q1) a) Explain MVC architecture with a suitable diagram. **[6]**

b) List and explain different types of structural directives in Angular. **[6]**

c) What way would you design simple application in typescript to demonstrate the use of modules? **[6]**

OR

Q2) a) List and explain the features of any three popular web frameworks. **[6]**

b) How would you use the term typescript? Give the advantages and disadvantages of using it? **[6]**

c) Explain any 2 Hooks in React JS with example. **[6]**

Q3) a) Write and explain a simple application using REST HTTP Method API in node JS. **[6]**

b) Explain how to perform CRUD operations in a Node JS application. Provide examples of CRUD implementation. **[6]**

c) Write a short note on PM2 microservices. **[5]**

OR

Q4) a) What is template engine? How to create and use it using Express.JS? **[6]**

b) List and explain the features of advanced MongoDB. **[6]**

c) Explain the role of NPM (Node Package Manager) in Node.js development. **[5]**

P.T.O.

Q5) a) What is jQuery Mobile? Explain Mobile jQuery framework in detail. **[6]**

b) Explain the mobile devices and desktop devices in detail ? **[6]**

c) Write a code to create a header and footer in jQuery Mobile. **[6]**

OR

Q6) a) Explain any 3 events in jQuery Mobile with example? **[6]**

b) Compare jQuery with jQuery Mobile. **[6]**

c) Explain the concept of Mobile-First design in web development. Explain its significance and benefits in creating responsive and user-friendly websites. **[6]**

Q7) a) Explain the features and benefits of AWS Cloud. **[6]**

b) What is S3 bucket and how to create a bucket? **[6]**

c) Explain the different components of VPC? **[5]**

OR

Q8) a) What is PuTTY? How to connect EC2 instance with PuTTY? **[6]**

b) Explain the process of deploying a website or web application on AWS. **[6]**

c) What is Elastic Load Balancer and explain its working. **[5]**

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