

Total No. of Questions : 8]

SEAT No. :

PC-1810

[Total No. of Pages : 2

[6353] - 129

TE-(Information Technology Engineering)

Web Application Development

(2019 Pattern) (Semester - II) (314453A)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2 , Q3 or Q4, Q5 or Q6 and Q7 or Q8
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.

- Q1)** a) Explain event binding and property binding in angular with example [6]
- b) What is MVC? Explain MVC architecture in detail [6]
- c) Explain any 2 Hooks in React JS with example [6]

OR

- Q2)** a) What is TypeScript? Write typescript program which will find maximum and minimum number from array [6]
- b) Compare functional component with class component [6]
- c) What is Pipe? Explain with example [6]
- Q3)** a) What is NoSQL? Explain different features of MongoDB [5]
- b) Write a code using ExpressJS to illustrate the concept of routes [6]
- c) Explain the concept of Event Loop with suitable diagram [6]

OR

P.T.O.

- Q4)** a) What is API? Explain REST HTTP API's in detail [5]
b) Write code to create collection, display and search data in mongoDB using NodeJS [6]
c) Explain File system module NodeJS. Write program to perform append and delete operation on file [6]
- Q5)** a) List and Explain any 3 widgets in jQuery Mobile [6]
b) What is Mobile-First and Mobile Web? List different Mobile Devices [6]
c) What is navigation? Write code to navigate from one page to another in jQuery Mobile [6]

OR

- Q6)** a) Compare jQuery with jQuery Mobile [6]
b) Write jQuery Mobile code to hide button once it is clicked [6]
c) What is content? Write code to create content in JQuery Mobile page [6]
- Q7)** a) Explain working of Elastic Load Balancer in detail [6]
b) What are the different components of VPC? [5]
c) What is elastic beanstalk and how it works? [6]

OR

- Q8)** a) What are different AWS Storage types [6]
b) What is cloud computing? Enlist benefits of cloud computing [5]
c) What is elastic beanstalk and how it works? [6]

