

Total No. of Questions : 8]

**PD4331**

SEAT No. :

[Total No. of Pages : 2

[6403] 129

T.E.(IT)

**WEB APPLICATION DEVELOPMENT**  
**(2019 Pattern) (Semester - VI) (314453)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

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

- Q1)** a) Explain how to create component and use it in angular application. [6]  
b) Compare functional component with class component. [6]  
c) Explain any 2 Hooks in ReactJS with example. [6]

OR

- Q2)** a) What is TypeScript? Write typescript program which will find maximum and minimum number from array. [6]  
b) Explain any 2 types of Directive in Angular with example. [6]  
c) Explain Angular - Architecture in detail. [6]

- Q3)** a) Compare NoSQL with SQL. [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

- 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]

P.T.O.

- Q5)** a) List and Explain any 3 widgets in jQuery Mobile. [6]  
b) Explain concept of ‘role’ in jQuery mobile? List and explain any 4 role. [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 is VPC? Explain advantages of VPC. [5]  
c) What is PuTTY? How to connect EC2 instance with PuTTY? [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]

