

Total No. of Questions : 8]

SEAT No. :

PB-3867

[Total No. of Pages : 2

[6262]-131

**T.E. (Information Technology)**  
**Web Application Development**  
**(2019 Pattern) (Semester - II) (314453 (A))**

*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) Figures to the right side indicate full marks.

**Q1)** a) Write a simple application in typescript to demonstrate the use of modules. [9]

b) What is pipe? Demonstrate the code for pipes in Angular. [9]

OR

**Q2)** a) Give the simple layout of the Angular application with multiple components. Explain how to create and use components in Angular?[9]

b) Explain the basic hooks in React JS. Explain any two hooks in brief.[9]

**Q3)** a) What is CRUD? Explain the CRUD using node. JS. [9]

b) What is node. JS? Explain file handling in node. js. [8]

OR

**Q4)** a) Write a code using Express. JS to illustrate the concept of roots. [9]

b) What is replication? Enlist the advantages of replication in database system. [8]

**P.T.O.**

**Q5) a)** What is navigation? Write a code to navigate from one page to another page in jQuery mobile. [9]

b) What is jQuery mobile? Explain layout in jQuery Mobile design with its types. [9]

OR

**Q6) a)** Why CSS is important in designing mobile websites? Give an example of CSS class used for mobile website design. [9]

b) List any five widgets in jQuery mobile and explain any two in brief. [9]

**Q7) a)** What is EC2 service? Explain steps to deploy website on EC2. [9]

b) What is AWS cloud? What are the services provided by AWS? Explain any two in brief. [8]

OR

**Q8) a)** What is ELB? What are the ELB types? List advantages of ELB [9]

b) What is VPC? What are the components of VPC? [8]

