

Total No. of Questions : 8]

SEAT No. :

P-7627

[Total No. of Pages : 2

[6180]-147

T.E. (IT)

**WEB APPLICATION DEVELOPMENT**  
**(2019 Pattern) (Semester - II) (314464A)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6 and Q7 and Q8.
- 2) Figures to the right side indicate full marks.
- 3) Use of nonprogrammable calculator is allowed.
- 4) Assume suitable data if necessary.

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 CRUDE? Explain the crude CRUDE in 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]

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]

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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]**

