

Total No. of Questions : 8]

SEAT No. :

PE-2591

[Total No. of Pages : 2

[6583]-122

T.E. (Information Technology)
WEB APPLICATION DEVELOPMENT
(2019 Pattern) (Semester - VI) (314453)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 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) What is MVC? Explain MVC architecture in detail. [6]

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

c) List and explain different types of structural directives in Angular. [5]

OR

Q2) a) Explain variables and constant in TypeScript and how they differ from traditional JavaScript. [6]

b) Explain the basic hooks in ReactJS with simple demo applications. [6]

c) What is Pipe? Explain with example. [5]

Q3) a) List and explain the features of any three popular web frameworks. [6]

b) What is socket? Write a client server communication in node JS using socket programming. [6]

c) What is API? Explain REST HTTP API's in detail. [5]

OR

Q4) a) Write a code using ExpressJS to illustrate the concept of routes. [6]

b) What is CRUD? Explain CRUD operations in node.JS [6]

c) What is NoSQL? Explain different features of MongoDB. [5]

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) List any five widgets in JQuery mobile. [6]
b) What is page? Write a code to create a page in JQuery mobile. [6]
c) What way would you design a code to make slide up transition in JQuery mobile? [6]

- Q7)** a) What is cloud computing, benefits of cloud computing & types of cloud computing. [6]
b) List steps to deploy the application on elastic beanstalk. [6]
c) What are the different components of VPC? [6]

OR

- Q8)** a) List steps to deploy website in EC2. [6]
b) How to convert EC2 Instance with PuTTY. [6]
c) What is S3 bucket and how to create a bucket? [6]

