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T.E. (Information Technology)
WEB APPLICATION DEVELOPMENT
(2019 Pattern) (Semester - II) (414464A)

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 diagrams must be drawn wherever necessary.*

Q1) a) List and explain different types of structural directives in Angular. **[6]**

b) How would you demonstrate the term web framework? Give the reason for using a web framework. **[6]**

c) What is Angular JS? Explain its features. **[6]**

OR

Q2) a) List and explain the features of any three popular web frameworks. **[6]**

b) Explain MVC architecture with a suitable diagram. **[6]**

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

Q3) a) List and explain the features of advanced MongoDB. **[6]**

b) Explain any four methods of console object in node.js with suitable examples. **[6]**

c) Write a short note on PM2 microservices. **[5]**

OR

Q4) a) Explain the callbacks in node.js with a suitable example. **[6]**

b) What is the purpose of map reduce? Explain it with a suitable example. **[6]**

c) Write a short note on Mongoose ODM **[5]**

P.T.O.

Q5) a) Explain the mobile devices and desktop devices in detail. **[6]**

b) What is j Query? Explain its architecture in detail. **[6]**

c) What is CDN? How it is powerful in web development? **[6]**

OR

Q6) a) Explain the mobile devices and desktop devices in detail. **[6]**

b) What is j Query? Is j Query a mobile framework? If yes. explain in brief **[6]**

c) What is a page? Write a code to create a page in j Query mobile. **[6]**

Q7) a) What is VPC? Explain the components of VPC. **[6]**

b) What is cloud computing? What are the benefits of cloud computing? **[6]**

c) List and explain the steps to deploy the application on the elastic beanstalk. **[5]**

OR

Q8) a) What are the storage services provided by AWS? **[6]**

b) What is S3 bucket and how to create a bucket? **[6]**

c) What is PuTTY? How to connect the EC2 instance with PuTTY? **[5]**

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