[5870]-1150

T.E. (I.T.)

WEB APPLICATION DEVELOPMENT

(2019 Pattern) (Semester - II) (414464A)

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 indicate full marks.

4)   Assume suitable data, if necessary.

Q1) a)   What is MVC? Explain MVC architecture in detail.   **[6]**

   b)   Explain event binding and property binding in angular with example. **[6]**

   c)   Explain different types of Hooks in ReactJS.   **[6]**

OR

Q2) a)   What is TypeScript? List advantages & disadvantages of using it.   **[6]**

   b)   What is Pipe? Explain with example.   **[6]**

   c)   Explain Redux - Architecture in detail.   **[6]**

Q3) a)   Explain ExpressJS as middleware with example.   **[5]**

   b)   What is NoSQL? Explain different features of MongoDB.   **[6]**

   c)   Explain callbacks in NodeJS with suitable example.   **[6]**

OR

Q4) a)   Explain concept of routes in express with example.   **[5]**

   b)   Write code to create collection, insert data & delete data in MongoDB
        using NodeJS.   **[6]**

   c)   Explain NodeJS events with example.   **[6]**

Q5) a) What is Mobile-First and Mobile Web? List different Mobile Devices. **[6]**

b) What is jQuery Mobile? Explain Mobile jQuery Framework in detail. **[6]**

c) Explain any 3 events in jQuery Mobile with example? **[6]**

OR

Q6) a) Compare jQuery with jQuery Mobile. **[6]**

b) What is jQuery Mobile? What are the advantages and disadvantages of jQuery Mobile? **[6]**

c) Write a code to create a header and footer in jQuery Mobile. **[6]**

Q7) a) Explain in detail types of Elastic Load Balancer. **[6]**

b) What are the different components of VPC? **[5]**

c) What is elastic beanstalk and enlist the advantages of using it? **[6]**

OR

Q8) a) Explain any three AWS Storage services. **[6]**

b) What is Elastic Load Balancer and explain its working. **[5]**

c) What is AWS cloud? List different services provided by it. **[6]**

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