Question Paper Code : 90247

M.C.A. DEGREE EXAMINATIONS, APRIL/MAY 2022.

Second Semester

MC 4201 – FULL STACK WEB DEVELOPMENT

(Regulations 2021)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. For One web server how many websites can be hosted?

2. If a client and server want to communicate using application-level protocol suggest which communication protocol can be used?

3. Identify the characteristics of webserver?

4. With an example explain the way in which routing application respond to a client request to a particular endpoint.

5. Infer the need of NoSQL with example?

6. List and explain any two key components of MongoDB.

7. Identify the react-dom package DOM specific modules.

8. Write short notes on Composition vs inheritance in React.js.

9. Mention any two Key advantages of cloud Computing.

10. Depict and discuss how virtual private cloud Can be deployed in public cloud?

11. (a) Describe the following in detail (6+7)

    (i) How events are handled in Javascript?

    (ii) Discuss with the code and sample output.

Or

(b) (i) Specify the important features of CSS Flexbox with code and Output.

    (ii) Identify how to wrap the text around an image using HTML and CSS? (6+7)

12. (a) Which Small framework sits on top of Node.js's webserver? Depict and describe how the light web framework are handled using that framework? (6+7)

Or

(b) Which functionality makes JavaScript programs Asynchronous? Describe the same functionality in detail. (13)

13. (a) Describe the categories of NoSQL databases and explain any two categories with proper example. (13)

Or

(b) Describe how MongoDB database is connected with Node.js Applications? (13)

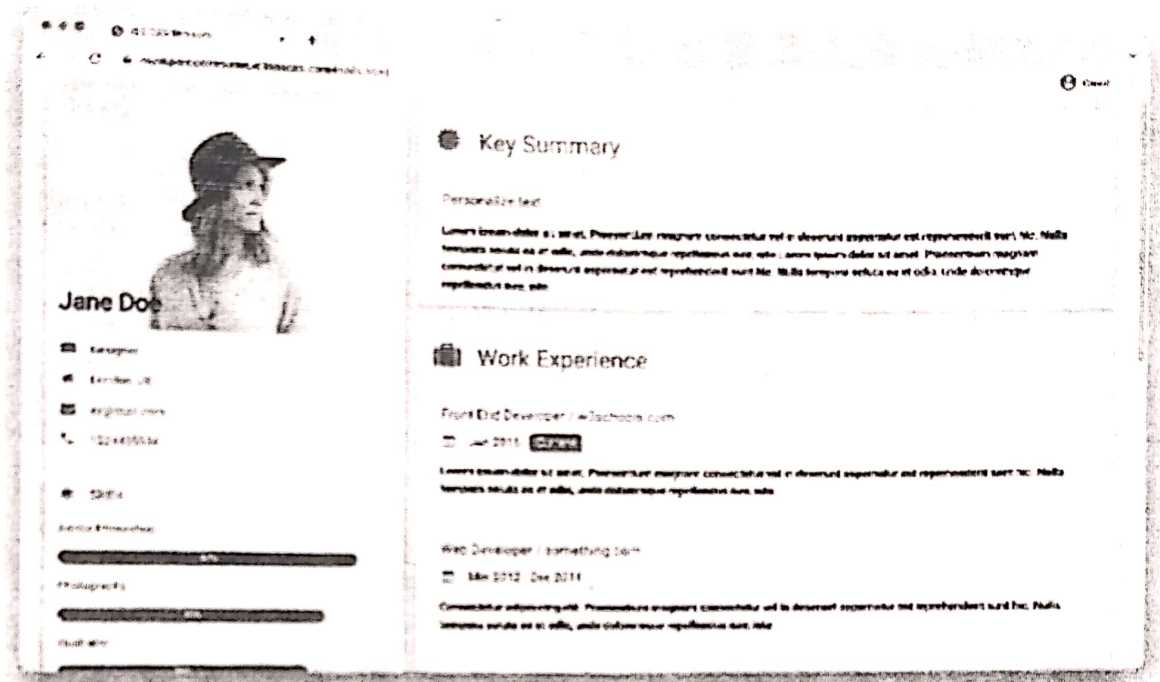14. (a) List the react lifecycle and explain any two with proper example.

Or

(b) Describe how Lifting up the state is happening in React with proper example. (13)

15. (a) Depict and Describe in detail how horizontal and vertical scaling are handling in cloud? (13)

Or

(b) Identify the purpose of kubernetes and also Identify what kubernetes can't do? (13)

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PART C — (1 × 15 = 15 marks)

16. (a) Creating resume is an important aspect of every ones carrier. So Create a CV which is shown below with needed CSS, images, tables, frames etc.

(15)

Or

(b) Is virtualization needed in cloud computing? How virtualization is different from cloud computing? Identify the advantages of virtualized environment over the cloud? (15)

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