Week 3 Practice Questions

Q1: If an application is entirely built on the client end using JavaScript (without database). Which of the following statements is true?

    A. All the progress will always be lost on the force reload of the page.
    B. All the progress may not necessarily be lost on the force reload of the page.
    C. The application will not allow force reload of the page.
    D. All of the above

Answer: B

Solution: An application that is built entirely using JavaScript can be refreshed or force reloaded. The progress may not be necessarily lost for force reload, as the data can be stored in local / session storage viva web storage APIs.

Q2: Which of the following statement(s) is/are correct?

    A. The system state is typically a huge collection of data.
    B. The user interface is dependent on the application state.
    C. The shopping cart of a user on an E-commerce website is an example of system state.
    D. All of the above

Answer: A and B

Solution: The system state is usually a huge collection of data. The application state is a state, which is specific to the user, and that's why the UI or user interface is dependent on the Application state. The shopping cart of a user on an E-commerce website is an application state, as it will be maintained separately for each user.

Q3: Which of the following is a desirable trait for good UI design?

    A. It should be aesthetically pleasing.
    B. UI should be adaptive to the different screen.
    C. UI should be intuitive to the user.
    D. All of the above

Answer: D

Solution: UI is related to the user interaction with the application. So, it should be aesthetically pleasing. UI should be adaptive to the different screen, it will make more accessible to the different users. And use of the application should be intuitive.

Q4: Which of the following statement(s) is/are true?

    A. In imperative programming, all steps involved in solving the problem needs to implemented.
    B. In declarative programming, all steps involved in solving the problem needs to implemented.
    C. In declarative programming, only what to do needs to be declared.
    D. In imperative programming, only what to do needs to be declared.

Answer: A and C

Solution: In imperative programming, the programmer need to specify all the steps required to solve the problem. On the other hand, in declarative programming, the programmer only need to specify the problem.

Q5: Which of the following is correct regarding application state?

    A. The state of the page which is currently visible to the user is an example of application state.
    B. Application state is everything that is present in the memory when the app is running.
    C. It is completely independent of user interface.
    D. None of the above

Answer: B

Solution: Application state is everything that is present in the memory when app is running.

Q6: All news article published on The Hindu newspaper is an example of _____.

A. System state
B. Ephemeral state
C. Application state
D. None of the above

Answer: A

Solution: All news article published on the Hindu newspaper is an example of System State.