HAJ-003-1083001

M. Sc. (IT & CA) (Sem.-III) (CBCS) (WEF-2016) Examination

May - 2023

CS-13 : Hybrid Mobile Applications Development Using Web Technologies

Faculty Code : 003
Subject Code : 1083001

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

1 (a) Answer the following :   **4**
   (1) What is the full form of npm ?
   (2) Give a full form of LESS.
   (3) What is the extnsion of bootstrap design file ?
   (4) The _____ attribute specifies that the input field is disabling.

(b) Answer any one in brief :   **2**
   (1) What is use of Bootstrap ?
   (2) Explain variable syntax in SASS, LESS and CSS.

(c) Answer any one in detail :   **3**
   (1) Explain range and time type with suitable example.
   (2) Difference between SCSS v/s LESS.

(d) Answer any one :   **5**
   (1) Explain Local Storage in HTML5 with suitable example.
   (2) Explain the features of Hybrid application.

2 (a) Answer the following :   **4**
   (1) The _____ directives repeats a set of HTML, a given number of times.
   (2) Give a full form of MVVM.
   (3) What is jQuery ?
   (4) The external JavaScript file must contain the <script> tag. True or False

(b) Answer any one in brief :   2
(1) What is $scope and $rootscope ?
(2) Explain how to declare function in jQuery with suitable code?

(c) Answer any one in detail :   3
(1) Explain following Directives :
(ng-click, ng-show, ng-hide, ng-bind, and ng-model)
(2) What is Filters ? Explain with suitable example.

(d) Answer any one :   5
(1) Explain MVC architecture of AngularJS.
(2) Explain ng-submit and user-define directive in AngularJS with suitable example.

3 (a) Answer the following :   4
(1) Write full form of CLI.
(2) The main class for all the bars you might use in your app is _____.
(3) Give the name of basic templates used in Ionic.
(4) Explain button component.

(b) Answer any one in brief :   2
(1) List out types of project created in Ionic.
(2) Explain Ionic colours.

(c) Answer any one in detail :   3
(1) Explain card in Ionic.
(2) What is header in Ionic?

(d) Answer any one :   5
(1) Explain ActionSheet with suitable example.
(2) Write a code to create a splash screen in Ionic.

4 (a) Answer the following ;   4
(1) _____ function is used to remove last insert element from array.
(2) The _____ function inserts one or more elements to the end of an array.
(3) Give a full form of API _____.
(4) The _____ function searches an array for a specific value.

(b)   Answer any one in brief :   **2**
      (1)   What is Node.js ?
      (2)   Write a step to install node.js.

(c)   Answer any one in detail :   **3**
      (1)   Explain file_get_contents() function with suitable
            example.
      (2)   Explain Associative Array of PHP with suitable code.

(d)   Answer any one :   **5**
      (1)   Explain json_encode & json_decode function with
            suitable code.
      (2)   Write a note on Architecture of node. js.

5   (a)   Answer the following :   **4**
      (1)   Which comamnd is used to create new local repository
            into Git ?
      (2)   What is Git ?
      (3)   Which command is used to remove android platform in
            ionic application ?
      (4)   Which command is used to add android in Cordova
            application ?

(b)   Answer any one in brief :   **2**
      (1)   What is GIT push and pull operations ?
      (2)   Explain status command in GIT.

(c)   Answer any one in detail :   **3**
      (1)   Explain branch command in GIT.
      (2)   Explain improtance of GIT in development of
            applications.

(d)   Answer any one :   **5**
      (1)   Write steps to build android app and publishing it on
            play store.
      (2)   Explain Ionic-Cordova media using example.

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