



HDE-003-1083001

Seat No. _____

M. Sc. (IT & CA) (Sem. III) Examination

November / December – 2017

**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) Give full form of CSS.
 - (2) Give full form of npm.
 - (3) _____ input type accepts only URL.
 - (4) Number type in html5 accepts alphanumeric value.
True or false?
- (b) Answer any one in brief : 2
- (1) What is hybrid application?
 - (2) Explain e-mail type with suitable example.
- (c) Answer any one in detail : 3
- (1) Explain range and number type with suitable example.
 - (2) Explain audio and video tag with suitable example.
- (d) Answer any one : 5
- (1) Explain Local Storage in HTML5 with suitable example.
 - (2) Write a note on Phonegap-cordova and Ionic for development of hybrid mobile application.

- 2 (a) Answer the following : 4
- (1) _____ directive initializes application data.
 - (2) _____ directive repeats html elements for each item in a collection.
 - (3) If a variable has the same name in both the current scope and in the rootscope in AngularJS, the application uses the one in the current scope. True or false?
 - (4) _____, directive shows the specified HTML element if the expression evaluates to true, otherwise the HTML element is hidden.
- (b) Answer any one in brief : 2
- (1) What is JQuery?
 - (2) How to define function in JavaScript?
- (c) Answer any one in detail : 3
- (1) Explain ng-model, ng-app, ng-bind with suitable example.
 - (2) Explain MVC architecture of AngularJS.
- (d) Answer any one : 5
- (1) Write a JQuery form validation for following example :
Create a form which includes : firstname, lastname, e-mail and password. Validations are as follows :
Firstname : required
Lastname : required
e-mail : required, should contain only a valid e-mail address
password : required, it should be 8 characters long.
 - (2) Explain service in AngularJS with suitable example.

- 3 (a) Answer the following : 4
- (1) Give full form of CLI.
 - (2) What is ngCordova?
 - (3) The main class for all the bars you might use in your app is _____.
 - (4) A default card can be created by adding a _____ class to your element.
- (b) Answer any one in brief : 2
- (1) Explain checkbox ionic component with example.
 - (2) Explain Ionic Colors.
- (c) Answer any one in detail : 3
- (1) Explain http request in factory()
 - (2) Explain Backdrop Ionic Javascript component with example.
- (d) Answer any one : 5
- (1) Explain range and select ionic component with example.
 - (2) Explain SlideBox with suitable example.
- 4 (a) Answer the following : 4
- (1) Give full form of JSON.
 - (2) _____ function converts a PHP value into a JSON value.
 - (3) Node.js is "server-side JavaScript". True or false?
 - (4) Node JS executes in a single threaded fashion. True or false?
- (b) Answer any one in brief : 2
- (1) What is NodeJS?
 - (2) What is the use of json-encode() and json-decode().

- (c) Answer any one in detail : 3
- (1) Explain array_push() and array_pop()
 - (2) Explain array_search() and in_array()
- (d) Answer any one : 5
- (1) Explain architecture of NodeJS.
 - (2) Explain how to read JSON as an input.
- 5 (a) Answer the following : 4
- (1) The Cordova _____ plugin is used to open external links from your app inside a web browser view.
 - (2) The Cordova _____ plugin uses the native camera for taking pictures or getting images from the image gallery.
 - (3) Give full form of VCS.
 - (4) The git _____ command creates a new Git repository.
- (b) Answer any one in brief : 2
- (1) Explain branch command in git.
 - (2) Explain commit command in git.
- (c) Answer any one in detail : 3
- (1) Explain push and pull in git.
 - (2) Explain Ionic-Cordova Native Audio with suitable example.
- (d) Answer any one : 5
- (1) Explain Ionic-Cordova media with suitable example.
 - (2) Write steps to build android app and publishing it on play store.
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