



PBA-003-1083001 Seat No. _____

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

November / December - 2018

**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 npm.
 - (2) The input _____ type is used for input fields that should contain a value from a range of numbers.
 - (3) _____ attribute provides a hint to the user of what can be entered in the field.
 - (4) Give full form of sass.
- (b) Answer any **one** in brief : 2
- (1) What is hybrid application?
 - (2) What is ionic?
- (c) Answer any **one** in detail : 3
- (1) Explain video tag with suitable example.
 - (2) Explain Phonegap-cordova and mobile angular UI.
- (d) Answer any **one** : 5
- (1) Write steps of installation of cordova using git and npm.
 - (2) Explain Local Storage in HTML5 with suitable example.

- 2** (a) Answer the following : **4**
- (1) Variables are declared with the _____ keyword in javascript.
 - (2) What is jQuery?
 - (3) jQuery Selectors are used to select and manipulate HTML elements. True or false?
 - (4) ng-init directive initializes application data. True or false?
- (b) Answer any **one** in brief : **2**
- (1) What is AngularJS?
 - (2) What is \$scope and \$rootScope?
- (c) Answer any **one** in detail : **3**
- (1) Explain ng-repeat with suitable example.
 - (2) What is filter in angularJS? Explain any two with example.
- (d) Answer any **one** : **5**
- (1) Explain ng-model, ng-app, ng-bind with suitable example.
 - (2) Explain service in AngularJS with suitable example.
- 3** (a) Answer the following : **4**
- (1) What is ngCordova?
 - (2) Ionic framework gives a set of _____ Predefined color classes.
 - (3) The Ionic _____ will overlay the content of the screen when applied.
 - (4) _____ folder is used for adding resources like icon and splash screen to your project.
- (b) Answer any **one** in brief : **2**
- (1) Explain themes in ionic.
 - (2) Explain icon for ionic application.

- (c) Answer any **one** in detail : **3**
- (1) Explain tabs ionic component with example.
 - (2) Explain popover Ionic Javascript component with example.
- (d) Answer any **one** : **5**
- (1) Explain http request in factory().
 - (2) Explain Grid component with suitable example.
- 4 (a) Answer the following : **4**
- (1) The _____ function deletes the last element of an array.
 - (2) Give full form of JSON.
 - (3) Node uses a single threaded model with event looping. True or false?
 - (4) Node.js is free to use. True or false?
- (b) Answer any **one** in brief : **2**
- (1) What is NodeJS?
 - (2) What is express-Nodejs?
- (c) Answer any one in detail : **3**
- (1) Explain array_push() and array_pop().
 - (2) What is the use of json_encode() and json_decode() ?
- (d) Answer any **one** : **5**
- (1) Write a note on architecture of NodeJS.
 - (2) Explain how to read JSON as an input.
- 5 (a) Answer the following : **4**
- (1) Give full form of VCS.
 - (2) The Cordova _____ plugin is used to open external links from your app inside a web browser view.

- (3) Ionic-Cordova media allows to record and playback audio files on a device. True or false?
- (4) Cordova offers _____ which is set of wrappers specifically designed to work with AngularJS.

(b) Answer any **one** in brief : **2**

- (1) Explain git branches.
- (2) What is git?

(c) Answer any **one** in detail : **3**

- (1) Explain push, pull, rollback in git.
- (2) Explain Ionic-Cordova Native media with suitable example.

(d) Answer any **one** : **5**

- (1) Explain ionic-camera with suitable example.
- (2) Write steps to build android app and publishing it on play store.
