



JAF-003-1083001 Seat No. _____

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

November – 2019

**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 phonegap cordova ?
 - 2 Give full form of SCSS.
 - 3 Which attribute is used to automatically focus on one particular form field ?
 - 4 What is bootstrap ?
- B Answer any one in brief : 2
- 1 What is CSS ?
 - 2 What is web sql ?
- C Answer any one in detail : 3
- 1 Explain audio and video tag.
 - 2 Explain the need for hybrid mobile application development.
- D Answer any one : 5
- 1 Explain Local Storage in HTML5 with suitable example.
 - 2 Explain Form validation with suitable example.
- 2 A Answer the following : 4
- 1 _____ keyword is used to declare variable in JavaScript.
 - 2 _____ function is used to convert a string value to an integer.
 - 3 The _____ directive binds the value of HTML controls to application data.
 - 4 The _____ directive defines the controller.

- B Answer any one in brief : 2
- 1 What is JQuery ?
 - 2 What is AngularJS ?
- C Answer any one in detail : 3
- 1 Explain ng-hide with suitable example.
 - 2 Explain UDF in JavaScript.
- D Answer any one : 5
- 1 Explain service in AngularJS with suitable example.
 - 2 Explain ng-model, ng-app, ng-bind with suitable example.
- 3** A Answer the following : 4
- 1 The main class for all the bars in ionic application is _____.
 - 2 What is ngCordova ?
 - 3 To group a couple of buttons together, button-bar class is used. True or false?
 - 4 Ionic framework gives a set of 9 predefined color classes. True or false?
- B Answer any one in brief : 2
- 1 What is theme in ionic?
 - 2 Explain slide box.
- C Answer any one in detail : 3
- 1 Explain tab component of ionic with suitable example.
 - 2 Explain color component of ionic with suitable example.
- D Answer any one : 5
- 1 Explain http request in factory.
 - 2 List and explain any two Ionic Javascript components.
- 4** A Answer the following : 4
- 1 Give full form of JSON.
 - 2 What is express-NodeJS ?
 - 3 What is the use of array_push() ?
 - 4 What is the use of array_pop() ?

- B Answer any one in brief : 2
- 1 What is NodeJS ?
 - 2 What is associative array?
- C Answer any one in detail : 3
- 1 Explain json_encode() and json_decode().
 - 2 Explain array_search() and in_array().
- D Answer any one : 5
- 1 Explain architecture of NodeJS.
 - 2 Write code to insert and read data with PHP and MySQL.
- 5** A Answer the following : 4
- 1 Give full form of VCS.
 - 2 What is git ?
 - 3 The cordova _____ plugin is s used to open external links from your app inside a web browser view.
 - 4 Cordova camera API provides the getPicture() for taking photos using a native camera. True or false ?
- B Answer any one in brief : 2
- 1 Explain push command in git.
 - 2 Explain status command in git.
- C Answer any one in detail : 3
- 1 Explain commit and rollback command in git.
 - 2 Explain Ionic-Cordova Native media with suitable example.
- D Answer any one : 5
- 1 Write steps to build android app and publishing it on play store.
 - 2 Explain Ionic-Cordova camera with suitable example.