

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination**DEC/JAN. - 2020 - [NEW COURSE]****Hybrid Mobile Applications Development Using Web Technologies (Core (New))****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figure to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q.1(A) Objective type Questions, Attempt all questions. (03)
1. The _____ attribute specifies the size (in characters) for the input field.
 2. The _____ attribute specifies the maximum allowed length for the input field.
 3. Give a full form of npm.
- Q.1(B) Answer in brief. (any two out of four) (06)
1. What is Hybrid Application? Why it is important?
 2. Explain range and type with suitable example.
 3. Define Native application and Web application.
 4. Explain audio and video tag with suitable example.
- Q.1(C) Write a note on. (any one out of two) (05)
1. Write a note on Phonegap-Cordova and Ionic for development of hybrid mobile application.
 2. Write a note on Mobile angular UI.
- Q.2(A) Objective type Questions, Attempt all questions. (03)
1. How do you write "Hello Student" in an alert box?
 2. What is AngularJS?
 3. What is jQuery?
- Q.2(B) Answer in brief. (any two out of four) (06)
1. What is filter in AngularJS? Explain any two with example.
 2. Explain ng-app and ng-init with suitable example.
 3. Explain Data binding in AngularJS.
 4. Explain jQuery Selectors.
- Q.2(C) Write a note on. (any one out of two) (05)
1. Explain MVC in context with AngularJS.
 2. Explain factory in AngularJS with suitable example.
- Q.3(A) Objective type Questions, Attempt all questions. (03)
1. How to install Ionic using CLI?
 2. The Ionic CLI is built with _____ and _____
 3. What is ngCordova?
- Q.3(B) Answer in brief. (any two out of four) (06)
1. Explain Action Sheet in Ionic.
 2. Define ion-alert with suitable example.
 3. Define ion-list with suitable example.
 4. Explain ion-input and ion-item in Ionic.
- Q.3(C) Write a note on. (any one out of two) (05)
1. Explain Grid component with suitable example.
 2. Write a note on router in context with Ionic.
- Q.4(A) Objective type Questions, Attempt all questions. (03)
1. Node js is an _____ as well as _____
 2. What is array_search()?
 3. What is json_encode()?
- Q.4(B) Answer in brief. (any two out of four) (06)
1. What is express-Nodejs? Explain with suitable example.
 2. Explain array_push() and array_pop().
 3. Explain file_get_contents("php://input").
 4. Explain Architecture of node.js

- Q.4(C) Write a note on: (any one out of two) (05)
1. Explain how to read JSON as an input.
 2. Write a program to display product table data with three field Prod_id, Prod_name and Category using json_encode() method.
- Q.5(A) Objective type Questions, Attempt all questions. (03)
1. Which command is used to add android platform in ionic application?
 2. Give full form of VCS.
 3. How to add splash screen cordova plugin
- Q.5(B) Answer in brief: (any two out of Four) (06)
1. Explain ionic-InApp browser plugin in detail.
 2. Explain push, pull and rollback in git.
 3. What is the difference between Git and GitHub?
 4. Explain the importance of git in application developments.
- Q.5 (C) Write a note on: (any one out of two) (05)
1. Write steps to build IOS app and publishing it on app store.
 2. Explain ionic-cordova media with suitable example.
