

**M.Sc.(IT & CA) Semester - 3 (CBCS) Examination****Nov/Dec-2023 (NEW COURSE)****Hybrid Mobile Applications Development Using Web Technologies (Core (New))****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1 (A) Attempt Following (03)
1. CSS stands for.
  2. List different storage APIs.
  3. What is bootstrap.css
- Que-1 (B) Attempt any Two (06)
1. What is hybrid application?
  2. Explain HTML 5 APIs.
  3. Why need of hybrid application development.
  4. Explain Forms validation in detail.
- Que-1 (C) Attempt Any One (05)
1. Explain Data storage APIs in detail.
  2. Explain Step by step installation of cordova using git and npm.
- Que-2 (A) Attempt Following (03)
1. Full name of MVC.
  2. What is jquery?
  3. What is scope?
- Que-2 (B) Attempt any Two (06)
1. Explain Storage on client side.
  2. Explain Config() and Run() in detail.
  3. Explain Variables, Scopes and functions in Java Script.
  4. Explain Ng-click with example.
- Que-2 (C) Attempt Any One (05)
1. Explain MVC architecture of angularjs.
  2. List Directives in angularjs and explain any two in detail.
- Que-3 (A) Attempt Following (03)
1. What is Plugin?
  2. CLI stands for.....
  3. What is Theme?
- Que-3 (B) Attempt any Two (06)
1. Explain importance of hybrid mobile application development.
  2. Explain ngCordova plugins.
  3. Explain http request and promises in factory.
  4. Explain passing data into the state by URL.
- Que-3 (C) Attempt Any One (05)
1. Write a Step by step installation of Ionic
  2. List different Component of Ionic-1. Explain Any Two with example.

- Que-4 (A) Attempt Following (03)
1. What is JSON?
  2. What is Nodejs?
  3. What Is json\_decode()?
- Que-4 (B) Attempt any Two (06)
1. Explain array\_push() and array\_pop(),.
  2. Write a step for connect PHP and MySQL database.
  3. Explain file\_get\_contents("php://input").
  4. What is express-Nodejs?
- Que-4 (C) Attempt Any One (05)
1. Write a code for create and read operation with PHP and MySQL
  2. Explain Architecture of Nodejs.
- Que-5 (A) Attempt Following (03)
1. What is git?
  2. In which store IOS application publishtion?
  3. .... is the Extension of keystore.
- Que-5 (B) Attempt Any Two (06)
1. Explain commit and rollback command.
  2. Explain Ionic-native audio.
  3. Explain git branches?
  4. How to maintaining version of applications using git.
- Que-5 (C) Attempt Any One (05)
1. Write a step how to publish android app on play store.
  2. Explain git push & pull operations.

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