

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2019)

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) Answer the following questions (03)
1. What is CSS?
 2. What is HTML 5 APIs?
 3. What is bootstrap?
- Que.1(B) Answer the following questions (ANY TWO) (06)
1. Explain Data storage APIs.
 2. Differentiate: SCSS v/s LESS.
 3. Explain Forms validation in HTML5.
 4. Explain range and time type with suitable.
- Que.1(C) Answer the following questions (ANY ONE) (05)
1. Explain the features of Hybrid application.
 2. Explain Local Storage in HTML5 with suitable
- Que.2(A) Answer the following questions (03)
1. What is MVVM?
 2. What is MVC?
 3. What is angularjs?
- Que.2(B) Answer the following questions (ANY TWO) (06)
1. Explain sending data over server side using jquery.
 2. What is angularjs? Explain MVC architecture of angularjs.
 3. Explain variables and functions in Java Script.
 4. Explain ui-router.
- Que.2(C) Answer the following questions (ANY ONE) (05)
1. Explain \$state, \$stateParams, \$stateProvider.state() with example.
 2. Explain Directives in angularjs in detail.
- Que.3(A) Answer the following questions (03)
1. What is Theme?
 2. What is Command line interface?
 3. What are plugins?
- Que.3(B) Answer the following questions (ANY TWO) (06)
1. Explain stateful approach for developing Ionic applications.
 2. Explain populating data into view from controller.
 3. Explain Icon and Splash Screen for Ionic applications.
 4. Explain populating data into view from controller.
- Que.3(C) Answer the following questions (ANY ONE) (05)
1. Write a Step-by-step installation of Ionic.
 2. Explain http request and promises in factory.
- Que.4(A) Answer the following questions (03)
1. What is Nodejs?
 2. What is CRUD operation?
 3. What is MySQL?

- Que.4(B) Answer the following questions (ANY TWO) (06)
1. Explain Step by step installation of Nodejs.
 2. Explain Associative arrays and array handling in PHP.
 3. Explain array_push() and array_pop().
 4. Explain Reading JSON as input using json_encode() and json_decode().
- Que.4(C) Answer the following questions (ANY ONE) (05)
1. Write a note on architecture of Nodejs.
 2. Explain data communication and interaction with client side using JSON.
- Que.5(A) Answer the following questions (03)
1. What is GIT?
 2. What is IOS?
 3. What is status command in GIT?
- Que.5(B) Answer the following questions (ANY TWO) (06)
1. Write steps to publish app on google store.
 2. Explain GIT commit and rollback operations.
 3. Explain Ionic-media and Ionic-InApp browser.
 4. Explain Build and publication application in App store.
- Que.5(C) Answer the following questions (ANY ONE) (05)
1. Explain Ionic-cordova integration.
 2. Explain GIT branches.
