



F-003-1083001

Seat No. _____

M. Sc. (I.T.) (Sem. III) (CBCS) Examination

October - 2022

**Hybrid Mobile Applications Development Using
Web Technologies : CS-13**

Faculty Code : 003

Subject Code : 1083001

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (a) Objective type questions : 4
- (1) Full form of NPM.
 - (2) Full form of CSS.
 - (3) Full form of XHTML.
 - (4) _____ input type accept only number.
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is bootstrap ?
 - (2) What is hybrid application ?
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Explain form validation.
 - (2) Explain <audio> and <video> tag.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Explain need of hybrid application development.
 - (2) Explain local storage in HTML 5 with suitable example.
- 2 (a) Objective type questions : 4
- (1) W3C stands for _____
 - (2) Do Angular JS provide reusable components ? (Yes/No)
 - (3) Full form of MVC.
 - (4) Define : JQuery
- (b) Answer in brief : (any 1 out of 2) 2
- (1) Explain operator in Javascript.
 - (2) Explain config() in Angular JS.

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- (c) Answer in detail : (any 1 out of 2) 3
 (1) Explain ng-model, ng-hide with detail.
 (2) Explain Javascript UDF.
- (d) Write a note on : (any 1 out of 2) 5
 (1) Explain \$scope and \$rootScope in Angular JS.
 (2) Explain Angular JS MVC Architecture.
- 3 (a) Objective type questions : 4
 (1) What is ionic Framework ?
 (2) Full form of CLI.
 (3) The Ionic framework has a set of _____ pre-defined colours.
 (4) In an ion-grid component, if columns are without size value, it will automatically take equal widths. (true/false)
- (b) Answer in brief : (any 1 out of 2) 2
 (1) Explain slideBox with detail.
 (2) Explain http request in factory ().
- (c) Answer in detail : (any 1 out of 2) 3
 (1) Write a step by step installation of IONIC.
 (2) What are the difference between HTML5 Native and a Hybrid app ?
- (d) Write a note on : (any 1 out of 2) 5
 (1) Explain range and select ionic components.
 (2) Explain colour component in IONIC with detail.
- 4 (a) Objective type questions : 4
 (1) Full form of HTTP.
 (2) Node.js is written in which language ?
 (3) Full form of JSON.
 (4) _____ extension is used to save the NodeJS file.
- (b) Answer in brief : (any 1 out of 2) 2
 (1) What is expressJS ?
 (2) Explain json_encode ().
- (c) Answer in detail : (any 1 out of 2) 3
 (1) Explain array_search () and array_push ().
 (2) Write step by step installation of NodeJS.

- (d) Write a note on : (any 1 out of 2) 5
- (1) Write database connection to MySQL Insert and select operation with PHP.
 - (2) Explain architecture of NodeJS.
- 5 (a) Objective type questions : 4
- (1) Full form of VCS.
 - (2) Full form of API.
 - (3) Full form of URI.
 - (4) A repository is a file structure where git stores all the project based files (true/false)
- (b) Answer in brief : (any 1 out of 2) 2
- (1) What is git ?
 - (2) What is github ?
- (c) Answer in detail : (any 1 out of 2) 3
- (1) Explain ionic camera plugin ionic-cordova.
 - (2) Explain git repository.
- (d) Write a note on : (any 1 out of 2) 5
- (1) Explain how to publication application in App store.
 - (2) Explain any 3 git basic command.
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