



003-3083003

Seat No. _____

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MASTER OF SCIENCE (INFORMATION TECHNOLOGY & COMPUTER APPLICATION)(W.E.F.-2022) M.SC. (IT&CA)(2022)
Semester - 3 Examination

M.SC. (IT&CA) (2022) SEMESTER-3 OCT-2024

CS-15 WEB DEVELOPMENT USING ANGULAR FRAMEWORK

Time : 2.5Hours]

[Total Marks : 70

1 (A) Answer the following:

4

- 1 What is AngularJS?
- 2 The full form of NPM is _____?
- 3 AngularJS provides Reusable components. True/False?
- 4 The full form of SPA is _____?

(B) Answer in brief (Any one out of two)

2

- 1 What is CLI and when to use it in Angular?
- 2 Differentiate AngularJS v/s Angular.

(C) Answer in detail (Any one out of two)

3

- 1 How do you create your first Angular Project? Give steps.
- 2 What is Component? How many Components are there in angularJS?

(D) Write a note on (Any one out of two)

5

- 1 How to install Node and NPM on windows?
- 2 Explain MVC Framework.

2 (A) Answer the following:

4

- 1 What is Data Binding in AngularJS?
- 2 Which Directive is used for Data Binding in AngularJS?
- 3 ng-app Directive Defines and links AngularJS application to HTML. TRUE/FALSE?
- 4 What is async in AngularJS?

(B) Answer in brief (Any one out of two)

2

- 1 Explain ng-init Directive .
- 2 Explain ngif in angular.

(C) Answer in detail (Any out of two)

- 1 Differentiate Property Binding v/s String Interpolation.
- 2 Give steps to create multiple module in Angular.

3

(D) Write a note on (Any one out of two)

- 1 Describe ng-model for two way Data Binding process.
- 2 Explain Form module and how you pass inputs and variables to components?

5

3 (A) Answer the following:

- 1 Full form of DI is _____?
- 2 List out 3 different kinds of dependency injection in angular.
- 3 Can we add multiple dependencies for one module using dependency injection. True/False?
- 4 What does HttpClient do in Angular?

4

(B) Answer in brief (Any one out of two)

- 1 What is the use of `Inject` in angularjs?
- 2 What is the use of AngularJS services?

2

(C) Answer in detail (Any one out of two)

- 1 How to inject services in AngularJS? Explain with example.
- 2 Explain Dependency Hierarchical Injector.

3

(D) Write a note on (Any one out of two)

- 1 How to inject services into another services in angular?
- 2 How to call REST API using HttpClient?

5

4 (A) Answer the following:

- 1 What is routing in angularJS?
- 2 The router is a part of `@angular/core` model. True/ false?
- 3 Define `routerOutlet`.
- 4 Which function is used to import `RouterModule` in a feature module?

4

(B) Answer in brief (Any one out of two)

- 1 What is `ngRoute` module?
- 2 Differentiate `RouterModule.forRoot()` v/s `RouterModule.forChild()`.

2

(C) Answer in detail (Any one out of two)

- 1 Explain `$routeProvider` and `$routeParams`.
- 2 what are the main components of Angular routing? Explain in brief.

3



(D) Write a note on (Any one out of two)

5

- 1 How would you handle wildcard routes in Angular Routing?
- 2 Explain Router.navigate and Router.navigateByUrl methods.

5 (A) Answer the following:

4

- 1 Give names of two types of forms in Angular?
- 2 Name any five events of angular forms.
- 3 What is the use of \$dirty in form validation.
- 4 What is the use of ng-mousemove?

(B) Answer In brief (Any one out of two)

2

- 1 Explain ng-keyup and ng-keydown.
- 2 What is the use of \$invalid and \$error?

(C) Answer in detail (Any one out of two)

3

- 1 Explain ng-submit in form submission.
- 2 What is the use of \$untouched, \$touched and \$pristine?

(D) Write a note on (Any one out of two)

5

- 1 What are the built-in validators in Angular forms, and how do you use them?
- 2 Explain different Mouse events in angularJS.