

**THE SUPERIOR COLLEGE LAHORE****Final Term Exam (RA-2020)**

**Subject:** Adv. Web Application Development  
**Resource Person:** Mr. Hafiz Muhammad Sohaib  
**Department:** CS & IT

**Date:** May. 15, 2020  
**Time Allowed:** 120 Min

Name: \_\_\_\_\_

Roll No: \_\_\_\_\_

Instructor: \_\_\_\_\_

**Instructions:**

1. No cutting or overwriting is allowed.
2. Use of mobile phone is strictly prohibited
3. No extra time will be given
4. Time Allow: 120 Minutes
5. **Material Copied from Internet will not acceptable**

**Question 01: Write down AngularCli Commands in sequence to develop following application according to structure.**

**(15)**

- Angular CLI to Create New Application
- Angular CLI commands for Application Components & Services
- How many components, sub-components, services and model classes in this application?
- Write a command to run application on localhost port: **4200**

```
➤ |-- app
➤ |   |-- about
➤ |   |   |-- about.component.html
➤ |   |   |-- about.component.css
➤ |   |   |-- about.component.spec.ts
➤ |   |   |-- `-- about.component.ts
➤ |   |-- app-routing.module.ts
➤ |   |-- app.component.html
➤ |   |-- app.component.css
➤ |   |-- app.component.spec.ts
➤ |   |-- app.component.ts
➤ |   |-- app.module.ts
➤ |   |-- articles
➤ |   |   |-- article-details
➤ |   |   |   |-- article-details.component.html
➤ |   |   |   |-- article-details.component.css
➤ |   |   |   |-- article-details.component.spec.ts
```

```
➤ | | | `-- article-details.component.ts
➤ | | | |-- articles
➤ | | | |-- articles.component.html
➤ | | | |-- articles.component.css
➤ | | | |-- articles.component.spec.ts
➤ | | | `-- articles.component.ts
➤ | | |-- articles-routing.module.ts
➤ | | `-- articles.module.ts
➤ | |-- home
➤ | | |-- home.component.html
➤ | | |-- home.component.css
➤ | | |-- home.component.spec.ts
➤ | | `-- home.component.ts
➤ | |-- page-not-found
➤ | | |-- page-not-found.component.html
➤ | | |-- page-not-found.component.css
➤ | | |-- page-not-found.component.spec.ts
➤ | | `-- page-not-found.component.ts
➤ | |-- privacy
➤ | | |-- privacy.component.html
➤ | | |-- privacy.component.css
➤ | | |-- privacy.component.spec.ts
➤ | | `-- privacy.component.ts
➤ | |-- products
➤ | | |-- product-details
➤ | | | |-- product-details.component.html
➤ | | | |-- product-details.component.css
➤ | | | |-- product-details.component.spec.ts
➤ | | | `-- product-details.component.ts
➤ | | |-- products
➤ | | | |-- products.component.html
➤ | | | |-- products.component.css
➤ | | | |-- products.component.spec.ts
➤ | | | `-- products.component.ts
➤ | | |-- products-routing.module.ts
➤ | | `-- products.module.ts
➤ | `-- terms
➤ | | |-- terms.component.html
➤ | | |-- terms.component.css
➤ | | |-- terms.component.spec.ts
➤ | | `-- terms.component.ts
➤ |-- assets
```

```

➤ |-- environments
➤ |   |-- environment.prod.ts
➤ |   `-- environment.ts
➤ |-- shared
➤ |   |-- products.service.ts
➤ |   |-- products.model.ts
➤ |   |-- articles.service.ts
➤ |   |-- articles.model.ts
➤ |-- favicon.ico
➤ |-- index.html
➤ |-- main.ts
➤ |-- polyfills.ts
➤ |-- styles.css
➤ `-- test.ts

```

Question 02: Write down the HTML Form for the saving product information.

(05)

The form is titled "Car Booking" and contains the following fields:

- Field 1: text1
- Field 2: text2
- Field 3: Combo1
- Field 4: text3
- Field 5: text4
- Field 6: TextArea1

Buttons: Save, CANCEL

Figure - 1

Question 03: Write down the only Client-Side Script for Figure-1 to save order information into

Web SQL named "MyOrderDB" and Table named "Orders".

(Total = 10)

- Create sperate database & Table if Not Exist in **WebSQL** (4)
- Write JS script to Insert Data into the Table named "**Orders**". (3)
- On Click "Cancel" Button Delete all items from "**Orders**" table of **WebSQL** (3)

Question 04: Write down the only HTML code for the below Table . (03)

My Multi Level Table				
Column 0		Column 1	Column 2	
			Column 2a	Column 2b
Row 1	Row 1a	123	456	789
	Row 1b	123	456	789
Row 2		123	456	789

Question 05: What is Difference between GraphQL and Rest APIs with real time example? (04)

Question 06: Explain SPA architecture with example? (03)