

## Angular Assessment

## Question 7

Which of the following is not a built-in-pipe in Angular?

- ☐ CurrencyPipe
- ☒ FilterPipe
- ☐ UpperCasePipe
- ☐ PercentPipe

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## OBJECTIVE QUESTIONS

essment

```
{ path: "error", component: ErrorComponent, data: { message: "page not found" } }
```

ErrorComponent.ts:

```
export class ErrorComponent {  
  constructor(private route: ActivatedRoute) { }  
  errorMessage: string;  
  //line 4  
}
```

Which of the following can be written in line 4 for retrieving static data from a route?

- ☐ this.errorMessage = this.route.snapshot.data['message']
- ☐ this.route.data.subscribe((data)=>{this.errorMessage = data['message']})
- ☒ Both a and b
- ☐ None of the above

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OBJECTIVE QUESTIONS

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Question 10

In reactive forms, which of the following class is used to build a reactive form object inside a component c

- ☐ FormGroup
- ☐ Validators
- ☒ FormBuilder
- ☐ All of the above

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OBJECTIVE QUESTIONS

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});

app.module.ts:

```
{
  path: 'user',
  loadChildren: () => import('./user/user.module').then(mod => mod.UserModule)
}
@NgModule({
  imports: []
})
```

What will happen when the user will navigate to the 'user' route?

Note: All necessary imports are done.

- ☐ Path 'user' does match any routepaths.
- ☐ UserComponent will be loaded dynamically.
- ☒ UserModule will be loaded and it will add its routes to AppModule

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## OBJECTIVE QUESTIONS

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## Question 22

Vikas is trying to understand the code of a Single Page Application created using Angular. He sees the below code. When he is able to go to its respective view on click of login or register. He is not able to understand which line of code is responsible for the respective views on the page. Can you help him?

```
(1) <h1>{{title}}</h1>
(2)   <nav>
(3)     <a [routerLink]="['/login']">Login</a>
(4)     <a [routerLink]="['/register']">Register</a>
(5)   </nav>
(6)   <router-outlet></router-outlet>
```

- ☐ Line 3
- ☐ Line 4
- ☒ Line 6
- ☐ All the above

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## Assessment

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27	28

Below is the code for a custom pipe to sort an array of numbers. Which line in the given code is the correct line to add the following code?

```
1  import { Pipe, PipeTransform } from '@angular/core';
2
3  @Pipe({
4    name: 'sort'
5  })
6  export class SortPipe {
7
8    transform(value: any[], args:string): any {
9
10     if(args=="Ascending"){
11       return value.sort(function(a, b){return a-b});
12     }
13     else if(args=="Descending"){
14       return value.sort(function(a, b){return b-a});
15     }
16     else{
17       return value;
18     }
19   }
20 }
```

- ☐ Line Number 1
- ☐ Line Number 8
- ☐ Line Number 4
- ☒ Line Number 6

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OBJECTIVE QUESTIONS

Question 10

While passing the data from child to parent/container component, the property we create in the c

- ☒ EventEmitter
- ☐ EventSender
- ☐ EventAny
- ☐ None of the above

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Question

Consider the following Angular routing code. Which line in the given code has an error?

```
(1) import { Routes, RouterModule } from '@angular/router';  
(2) import { BooksComponent } from '../books.component';  
(3) import { DashboardComponent } from '../dashboard.component';  
(4) import { BookDetailComponent } from '../book-detail.component';  
  
(5) const routes: Routes = [  
(6)   { path: 'dashboard', component: DashboardComponent },  
(7)   { path: '', pathMatch: 'full',  
(8)     { path: 'books', component: BooksComponent },  
(9)     { path: 'detail/:id', component: BookDetailComponent } ]];  
  
(10) export const routing = RouterModule.forRoot(routes);
```

- ☐ Line 6
- ☒ Line 7
- ☐ Line 8
- ☐ Line 9

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```
OnDestroy
{
  ngOnInit() {
    console.log('Init');
  }

  ngAfterContentInit() {
    console.log('After content init');
  }

  ngDoCheck() {
    console.log('Change detected');
  }

  ngAfterContentChecked() {
    console.log('After content checked');
  }

  ngOnDestroy() {
    console.log('Destroy');
  }
}
```

- ☐ ngAfterContentInit()
- ☒ ngDoCheck()
- ☐ ngAfterContentChecked()
- ☐ All of the above

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OBJECTIVE QUESTIONS

Question 28

Amit has created two component classes called "AppComponent" & "LoginComponent" respectively. the browser?

- ☐ @NgModule({ declarations: [AppComponent], bootstrap: [AppComponent, LoginComponent] })
- ☒ @NgModule({ declarations: [AppComponent, LoginComponent], bootstrap: [LoginComponent] })
- ☐ @NgModule({ declarations: [AppComponent, LoginComponent], bootstrap: [AppComponent, LoginComponent] })
- ☐ @NgModule({ declarations: [LoginComponent], bootstrap: [LoginComponent] })

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OBJECTIVE QUESTIONS

Question 5

Which of the following will successfully add required and email validators to the email field?

- ☐ email: ["", Validators.required, Validators.email],
- ☒ email: ["", [Validators.required, Validators.email]],
- ☐ email: ["", {Validators.required, Validators.email}],
- ☐ None of the given options

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OBJECTIVE QUESTIONS

Question 21

The only way to inject a service class inside a component is through a constructor. State True or False.

- ☒ True  
☐ False

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In the below-given code snippet, which line of code will throw an error?

```
(1) import { Component } from '@angular/core';  
(2) @Component({  
(3)   selector: 'app-root',  
(4)   template: `<ul>  
(5)       <li ngFor="let u of users">{{u.name}}, {{u.address}}</li>  
(6)       </ul>`})  
(8) export class AppComponent {  
(9)   users=[{"name":"Ward Bell Dallas","address":"Texas","status":"active"},  
(10)        {"name":"Mark Zuckerberg","address":"Palo Alto","status":"active"},  
(11)        {"name":"James Cook Kent street","address":"Sydney","status":"active"}];}
```

- ☐ Line Number 3
- ☐ Line Number 4
- ☒ Line Number 5
- ☐ Line Number 8

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Which of the following syntax is not an example of one-way data binding?

- ☐ `{{value}}`
- ☐ `[attr.colspan]='value'`
- ☐ `(click)="display()"`
- ☒ `[(ngModel)]="value"`

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OBJECTIVE QUESTIONS

Question 24

In reactive forms, we don't use the `ngModel` directive to bind form elements with model class properties. St

☒ True

☐ False

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OBJECTIVE QUESTIONS

Question 3

Which of the following statement(s) is/are correct regarding pipes?

1. Pipes is a way of handling functionality inside templates
2. Pipes are used for data transformation

- ☒ Both (i) and (ii) are true
- ☐ Only(i) is true
- ☐ Only (ii) is true
- ☐ None of the given options are true

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OBJECTIVE QUESTIONS

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Which of the below syntax will clone and add DOM elements when the condition is true and

- ☒ \*ngIf="conditional"
- ☐ [hidden]="conditional"
- ☐ ngIf="conditional"
- ☐ None of the above

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Which of the following statement(s) is/are true regarding Reactive forms?

1. Reactive forms are used for large size forms
2. In Reactive forms, form control objects are created in the component class and will

- ☐ Only (i) is true
- ☐ Only (ii) is true
- ☒ Both (i) and (ii) are true
- ☐ None of the given options are true

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OBJECTIVE QUESTIONS

Question 6

Which of the following can be used to pass data from one component to another component?

- a) @Input and @Output decorators
- b) route parameters in routing

- ☐ Only (a) can be used
- ☐ Only (b) can be used
- ☒ Both (a) and (b) can be used
- ☐ None of the given methods can be used

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OBJECTIVE QUESTIONS

Question 17

Consider the below Angular service code snippet. Which line in the below code will be executed when HttpClient

```
(1) @Injectable()  
(2) export class BookService {  
(3)   constructor(private http: HttpClient) { }  
(4)   private booksUrl = './assets/books.json';  
(5)   getBooks(): Observable<Book[]>{  
(6)     return this.http.get<Book[]>(this.booksUrl).pipe(  
(7)       tap(data => console.log("All: " + JSON.stringify(data))),  
(8)       catchError(this.handleError))}
```

- ☐ Line 6
- ☐ Line 7
- ☒ Line 8
- ☐ No line in the given code will be executed

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A Component will consists of the following

- i. Templates
- ii. Class
- iii. Metadata

- ☐ Only i and ii
- ☐ Only ii and iii
- ☐ Only i and iii
- ☒ All of the above

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#### Question 4

In the below-given code snippet, we are creating service ProtectGuard having a dependency on AuthLogin.service.ts:

```
export class ProtectGuard implements CanActivate {  
  constructor(private Authlogin: AuthLoginService) { }  
  canActivate(route: ActivatedRouteSnapshot, state: RouterStateSnapshot): Promise<boolean> {  
    Authlogin.isSignedIn().then(() => {  
      if (signedIn) {  
        returns true;  
      }  
    })  
  }  
}
```

AuthLogin.service.ts:

It contains a method called isSignedIn which returns a variable signedIn of boolean value false wrapped

Select the correct option to protect the path in users component in Angular.

- ☐ {path: 'users', canActivate:[AuthLogin], component:UsersComponent}
- ☒ {path: 'users', canActivate:[ProtectGuard], component:UsersComponent}
- ☐ {path: 'users', canActivate:'AuthLogin', component:UsersComponent}
- ☐ {path: 'users', canActivate:'ProtectGuard', component:UsersComponent}

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John has created a sign-in form and a model class for that. He wants to bind those in two directions. What type of data binding he should use?

- ☐ One way (class->view)
- ☐ One way (view->class)
- ☒ Two Way
- ☐ None of the above

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How many files will get created when the following command is executed to generate component MyComponent

☐ 2☐ 3☒ 4☐ 5



## Question

Which of the following is correct to define the template of a component?

- ☐ `@Component({ selector: 'app-coursedetail', template: './coursedetail.component.html' })`
- ☐ `@Component({ selector: 'app-coursedetail', templateUrl: '<h1>welcome to Angular</h1>' })`
- ☐ `@Component({ name: 'app-coursedetail', template: '<h1>welcome to Angular</h1>' })`
- ☒ `@Component({ selector: 'app-coursedetail', templateUrl: './coursedetail.component.html' })`

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OBJECTIVE QUESTIONS

Question 1

Which among the following is true about modules in Angular?

1. Module is a block of code with specific functionality that is used to organize the application
2. Each component created in an Angular application should be made part of a module

- ☐ Only (i) is true
- ☐ Only (ii) is true
- ☒ Both (i) and (ii) are true
- ☐ Neither (i) nor (ii) is true

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What type of one-way data binding is used for the below template?

```
<table border=1>
  <tr>
    <td [attr.colspan]="1+1"> First </td>
    <td>Second</td>
  </tr>
  <tr>
    <td>Third</td>
    <td>Fourth</td>
    <td>Fifth</td>
  </tr>
</table>
```

- ☐ Property Binding
- ☒ Attribute Binding
- ☐ Event Binding
- ☐ Interpolation

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Consider the below code snippet and assume that all the required imports are done. What will **app.component.html**:

```
<div>Welcome to {{courseTitle}}</div>
```

**app.component.ts**:

```
import { Component } from '@angular/core';

@Component ({
  selector: 'my-app',
  templateUrl: 'app/app.component.html'
})
export class AppComponent {
  courseTitle: string = 'Angular';
}
```

- ☒ Welcome to Angular
- ☐ Welcome to {{courseTitle}}
- ☐ Angular
- ☐ None of the above

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Angular Assessment

## Question 7

Which of the following is not a built-in-pipe in Angular?

- ☐ CurrencyPipe
- ☒ FilterPipe
- ☐ UpperCasePipe
- ☐ PercentPipe

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Which of the following is the correct way to bind a click event to the button?

i. `<button (click) = "onSubmit(userName.value,password.value)">Login</button>`

ii. `<button onClick = "onSubmit(userName.value,password.value)">Login</button>`

- ☒ Only (i) is correct
- ☐ Only (ii) is correct
- ☐ Both (i) and (ii) are correct
- ☐ Neither (i) nor (ii) are correct

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## OBJECTIVE QUESTIONS

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```
{ path: "error", component: ErrorComponent, data: { message: "page not found" } }
```

ErrorComponent.ts:

```
export class ErrorComponent {  
  constructor(private route: ActivatedRoute) { }  
  errorMessage: string;  
  //line 4  
}
```

Which of the following can be written in line 4 for retrieving static data from a route?

- ☐ this.errorMessage = this.route.snapshot.data['message']
- ☐ this.route.data.subscribe((data)=>{this.errorMessage = data['message']})
- ☒ Both a and b
- ☐ None of the above

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Question 10

In reactive forms, which of the following class is used to build a reactive form object inside a component c

- ☐ FormGroup
- ☐ Validators
- ☒ FormBuilder
- ☐ All of the above

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```
});
```

app.module.ts:

```
{  
  path: 'user',  
  loadChildren: () => import('./user/user.module').then(mod => mod.UserModule)  
}  
@NgModule({  
  imports: []  
})
```

What will happen when the user will navigate to the 'user' route?

Note: All necessary imports are done.

- ☐ Path 'user' does match any routepaths.
- ☐ UserComponent will be loaded dynamically.
- ☒ UserModule will be loaded and it will add its routes to AppModule

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## OBJECTIVE QUESTIONS

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## Question 22

Vikas is trying to understand the code of a Single Page Application created using Angular. He sees the below code. When he is able to go to its respective view on click of login or register. He is not able to understand which line of code is responsible for the respective views on the page. Can you help him?

```
(1) <h1>{{title}}</h1>
(2)   <nav>
(3)     <a [routerLink]="['/login']">Login</a>
(4)     <a [routerLink]="['/register']">Register</a>
(5)   </nav>
(6)   <router-outlet></router-outlet>
```

- ☐ Line 3
- ☐ Line 4
- ☒ Line 6
- ☐ All the above

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