1.What is a scope?

**Ans**: Scope in AngularJS1.x refers to model(JavaScript Object) that is shared between view(HTML) & Controller JavaScript function. 2-way binding in AngularJS which helps to keep the synchronization between model and view where changes in model are reflected in the view and vice-versa is achieved through scope.

* Root scope is the parent scope in AngularJS application and is associated with ng-app directive. It is available through out the application.
* Each & every controller partial view is associated with its own scope.
* Each HTML directive is associated with its own scope.

2.What is the difference between a service, a directive, and a controller?

**Ans**: Service is singleton object which is available through out AngularJS application and is available once the angular is bootstrapped and all providers are initialized. Angular service follows constructor injection pattern where instance of service is created through new constructor which can take arguments.

Service provide a way to share data between components (mainly controllers) in AngularJS.

Service can hold reusable piece of code across various components in Angular

**Directive**:

Directives are custom HTML elements or attributes which are associated with specific behavior. The behavior of directives are defined in defined in controller or link functions in Directive.

AngularJS has built-in directives that offer specific functionality. Examples are ng-app, ng-controller, ng-bind & so on.

These directives are compiled by Angular Compiler at the time of Bootstrap. Custom directives in angular helps to build reusable components.

Similar to controllers, directives can be associated with scope as well.

**Controller**:

Controllers are JavaScript functions that are associated with partial view in AngularJS. angular-ui-router, associate controllers & template with a state. When a state transition happens to specific controller , a new child scope is created. This scope object binds controller & partial view in 2-way fashion since the updates are conveyed bidirectionally.

Controller encapsulate functions & variables that define behavior of partial view. Essentially loading of contents in partial view & submit/cancel actions are defined in controllers.

3.Have you created your own custom directives? Describe a custom directive you created. What need does it satisfy?

Yes. In the credit card application I am working for created directive that controls Credit card product bar section, that appears below header. The product bar contains product image of specific credit card product & details such as interest rate, cash advance rate details of specific card.

The Product bar appears on all the pages in the application.

I have worked on few other deceivers such as dobwatcher which validates the DOB every time its modified by user is lesser than current date and satisfies age for that province.

During my tenure with Toyota, I worked on directives for table element. The directive helps in soring contents of table , Edit / Delete specific rows from table.

4.List some best practices for separate directives to communicate with each other.

Two separate directives can communicate in 2 different ways as listed below:

1. Directives can expose API through the controller ,and the API which then can be provided in the argument of link function.
2. Other way of inter directive communication is the event driven approach. Emit, Broadcast & On are the event types for inter directive communication. Emit sends the event to parent directives which can be received by through $scope.on mechanism .Broadcast is the scenario where event is transm*tted to HTML child elements.*

5.What is transclusion?

Translation in AngularJS provides feature to read the content that is wrapped by directives .

Index.html

<my-directive>Hello.this is Custom content</my-directive>

customDir.js

<div ng-transclude></div>

Prints

>Hello.this is Custom conten

For example ,

6.What is a service recipe? What service recipes exist in AngularJS?

Services are singleton objects in Javascript.which are created by service factory function. Service recipe can be achieved

7.What gotchas exist when using AngularJS and JQuery together?

8.What, if any, are the major advantages of AngularJS 2.x over AngularJS 1.x?

JavaScript

1.What is a closure in JavaScript?

2.What is a Promise?

3.What is the significance of, and reason for, wrapping JavaScript code in a function block?

Cordova

1.What is Cordova / PhoneGap? How do they differ from each other?

2.How do you use Cordova / PhoneGap?