

1. What Design Pattern does the Spring DispatcherServlet implement? 1 / 1 point

- ☒ FrontController
- ☐ Model
- ☐ Proxy
- ☐ Model View Controller

✓ **Correct**
Correct; AM Front controller provides a single entry point into an application that all requests travel through and is responsible for dispatching to destinations

2. What are Spring Boot Starter dependencies? Select all that apply. 2 / 2 points

- ☐ They build and define the starter project structure for a Spring Boot Application
- ☒ Application dependencies that “drag” in the actual jars for the Spring Boot Application

✓ **Correct**
True; their entry in the pom drag in a multitude of jars that provide the back bone of the Spring Boot Application dependencies

- ☒ They contain no code of their own but are virtual dependencies

✓ **Correct**
True; they are virtual packages whose role is to get the actual dependencies

- ☐ The core dependencies that provide the basis of a Spring Boot Application

3. Under which directory would you find configuration files in a Spring Boot Project using all default configurations? 1 / 1 point

- ☐ src/main/resources/template
- ☒ src/main/resources/config
- ☐ src/main/resources/js
- ☐ src/main/resources/static

✓ **Correct**
True, although such properties can lie directly under src/main/resources frequently they are found under a config sub directory

4. What Annotations does the single annotation @SpringBootApplication on a SpringBootApplication Runnable class replace to automatically configure a WebApplicationContext including the DispatcherServlet and auto scanning for Controllers? Choose the three that apply. 3 / 3 points

- ☒ @Configuration

✓ **Correct**
True; the Application class is also a Spring configuration class that can define Spring Managed Beans or be annotated to scan for Spring Annotated beans

- ☒ @ComponentScan

✓ **Correct**
True; the DispatcherServlet will require a means to scan for Controller, in the current and sub packages were HandlerMappings will be built correlating Urls to beans annotated with @RestController or @Controller and their respective @RequestMapping

- ☐ @Autowired

- ☒ @EnableAutoConfiguration

✓ **Correct**
True; this annotation triggers the initialization of a WebApplicationContext

5. Why are @ConfigurationProperties annotated Java classes preferred over @Value("\${...}") when it comes to injecting items in from the Spring Environment? Select all that apply.

☒ Just injecting into a Controller as a Java Dependency i.e. the class and not a Spring annotation dependency

☒ **Correct**

True; the Configuration class is just Java no Spring dependency

☒ Can populate complex objects

☒ **Correct**

True; complex object types such as list can be populated

☒ Validated

☒ **Correct**

True; JSR303 validators can be applied to fail the container immediately

☒ Type Safe

☒ **Correct**

True; You have a compiled Java Class, checked for data injection into properties at Spring Container start up time

6. What Annotation must you place upon a class to be picked up by Spring Boot package based component scan to be part of the DispatcherServlet HandlerMappings matching Url to method in such a class?

1 / 1 point

☒ @RestController

☐ @Configuration

☐ @GetMapping

☐ @SpringBootApplication

☒ **Correct**

True this annotation marks the class as a Controller and it will be part of the Url Mappings. @RequestMapping is usually also placed on the class to map the entire class to a Url, but this can be done with @GetMapping and a path attribute at the method level

7. What Annotation must you place upon a method in a RestController class to be tied to an HTTP GET?

1 / 1 point

☐ @Configuration

☐ @RestController

☒ @GetMapping

☐ @SpringBootApplication

☒ **Correct**

True this would mean the method would only be tied to HTTP Get where the Url would be from the Class @RequestMapping

8. What Annotations does the @SpringBootApplication annotation replace?

3 / 3 points

☒ @EnableAutoConfiguration

✓ **Correct**

True This annotation triggers the launch of the DispatcherServlet WebApplicationContext

☒ @SpringBootConfiguration

✓ **Correct**

True This annotation marks the class itself as a java Configuration class where we can create Spring Bean Definitions

☒ @ComponentScan

✓ **Correct**

True This annotation triggers the component scan for Controllers and RestControllers

☐ @RestController

9. What notation format can we use to define parent child relationships in configuration files to populate the Spring Environment Object?

1 / 1 point

☐ Properties i.e. key value pairs

☒ Yaml

☐ Java

☐ text

✓ **Correct**

True Yaml defines nested hierarchical properties

10. Spring MVC Uses WHAT to invoke RestController Methods and convert request parameters and response payloads through provided Converters?

1 / 1 point

☐ ViewResolvers

☐ HandlerMappings

☒ HandlerAdapters

☐ ExceptionHandlers

✓ **Correct**

True this does indeed invoke mapped RestController methods and convert input parameters and output response types