1.What is the purpose of the core module in AEM?

The core module consists of various java code,services which are resuable.It mainly helps to reduce the cost and increase development time.

2.What kind of files and code can be found in the core folder?

The core folder is the part of Maven project structure that consist of src,target,pom files.

It also consist of a classpath file,.setting file and a project file.

3.Explain the role of ui.apps in AEM projects.

It is mainly contains the front-end code and client side resources.It mainly helps in making the interface responsive and appealing.

4.How are components structured in the ui.apps folder?

**Hello World Component:**

* Where is the Hello World component located in both core and ui.apps?

Core: myTraining\core\src\main\java\com\myTraining\core\models

Ui.apps: C:\AEM\codebase\myTraining\ui.apps\src\main\content\jcr\_root\apps\myTraining\components\helloworld

* Explain the Java class (in core) for the Hello World component.

The HelloWorldModel makes a message with info about the resource and page. Then, it has a getMessage() method to show the message

* How does the HTL script work in ui.apps for Hello World?

It controls how the Hello World component looks on the web page. The information from the HelloWorldModel using the getMessage() method is shown on the web page through the HTL script in the ui.apps folder.

The HTL script in ui.apps takes the data from the model and puts it into the HTML, so it appears correctly on the web page.

* How are properties and dialogs defined for this component?

5.What are the different types of AEM modules (core, ui.apps, ui.content, etc.)?

The types of AEM modules are core, ui.apps, ui.content, ui.config, ui.frontend, and ui.tests.

6.How does Maven build these modules?

Maven builds AEM projects by using POM files that list what each part of the project needs, following a set of steps to build the project, and managing all the parts with a main POM file.

7.Explain the build lifecycle of Maven in the context of AEM.

Maven follows a series of steps to build an AEM project, like checking the code, compiling it, testing it, packaging it, and installing it.

8.How are dependencies managed in pom.xml?

In the pom.xml file, you list all the libraries your project needs. Maven reads this file, downloads the libraries, and includes them in your project automatically. This way, you don't have to manually find and add each library yourself.

9.Why is Maven used instead of other build tools?

Maven is preferred over other build tools because it simplifies and standardizes the build process. It uses a project object model (POM) to manage project dependencies, build configurations, and plugins.

10.What advantages does Maven offer for AEM development?

Maven automates tasks, ensures consistent builds, manages dependencies, supports multi-module projects, and has a large community with many plugins.

11.How does Maven help in managing dependencies and plugins in AEM projects?

Maven uses the pom.xml file to list all the libraries and tools our project needs. It automatically downloads and includes them, ensuring everything is available for the project to run smoothly.

12.What does mvn clean install do in an AEM project?

Running mvn clean install deletes any old builds and then compiles the code, runs tests, and packages the project . This ensures that the project is built fresh and up-to-date.

13.How to deploy packages directly to AEM using Maven commands?

mvn clean install -PautoInstallPackage

14.Explain the purpose of different Maven profiles in AEM (autoInstallPackage, autoInstallBundle).

1. **autoInstallPackage:** This profile is used to build and install the entire package

2. **autoInstallBundle:** This profile is used to build and install only the OSGi bundle

15.What is the purpose of dumplibs in AEM?

dumplibs is a tool in AEM that lists all the client libraries (CSS, JS) used on a page. It's useful for debugging and managing client-side resources

16.How can you view client libraries using dumplibs?

To view client libraries, you can append .dumplibs.html to a page URL in AEM.

17.Explain how client libraries are structured in AEM.

client libraries in AEM are organized in folders called cq:ClientLibraryFolder. These folders contain JS, CSS, and other resources.