@Mock: It is used to mock the particular class or interface on the reference.

@InjectMock: It is used to mock the particular object or reference in the class level or interface level.

@WebMvcTest: Mostly It is used in the controller layer either MVC or Rest API to initiate the spring application context and also it was initiated to web layer.

@SpringBootTest: It is used to perform the integration test and it initiates the whole flow by choosing the spring web environment.

@AutoConfigureMVC:

@MockBean

@RunWith(MockitoExtension.class): It is used in service layer mocking the object. It is a class level annotation.

@DataJpaTest: It is used in DB persistent layer to perform the Junit with h2 data base. Because spring boot internally it uses the H2 DB.