4.1 Role of Security Testing in a Software Lifecycle:

1.Requirements

* Requirement objective
* Requirement activities

2.Design

3.Implementation

4.system Testing

5.accepctance testing

6.Maintenance

4.2 The Role of Security Testing in Requirements

4.4 The Role of Security Testing in Implementation Activities

4.4.1 Security Testing During Component Testing

4.4.1.1 White-box/Glass-box Testing Considerations

**Fuzz testing:** It a technique to identify the vulnerability in the application, by inputting massive amounts of data to the component or system under test.

White box fuzz testing and Black box fuzz testing