**Assignment-5**

1. **What are various levels of Testing?**

**Various levels of Testing:-**

* **Component Testing**
* **Integration Testing**
* **System Testing**
* **Acceptance Testing**

1. **What is AUT?**

**AUT stands for Application Under Test. After designing and coding phase of development cycle, when the application(build) comes under testing then at that time application state is under test, so at that time period that application(build) is called AUT.**

1. **What is UAT?**

**UAT stands for User Acceptance Testing. UAT is a phase of software development in which the software is tested in the “real world” by the intended audience. This type of testing is to be conducted in the final stage of software. It is also known as beta testing, application testing and end user testing.**

1. **What is the difference between Unit Testing and Component Testing?**

**Unit testing is a testing technique by which individual units of source code are tested.**

**Component testing is a method where testing of each component in an application is done separately. Component testing is also known as module, unit or program testing.**

1. **What are the various types of Integration Testing?**

* **Top- down Integration**
* **Bottom- up Integration**
* **Bidirectional (Sandwitch testing)**
* **System Integration (BigBang testing)**

1. **What are the various factors influencing test scope?**

* **Scope of the project**
* **Complexity of the application**
* **Use of technologies**
* **Implementing the framework**
* **Learning and Training**
* **Environment set up**
* **Coding and Review**

1. **What are the various testing types available in Acceptance Testing?**

* **Alpha testing**
* **Beta testing**
* **User acceptance testing**
* **Business acceptance testing**
* **Global testing**

1. **What is the difference between bug and defect?**

**Bug:- A bug is a fault in a program which causes it to behave abruptly. Bugs are done by testers.**

**Defect:- Defect is defined as a wrong requirement. A defect is found when the application does not conform to the requirement specification. A defect can also be found when the client or user is testing.**

1. **What is the difference between unit testing and integration testing?**

**Unit testing is a testing technique by which individual units of source code are tested.**

**Integration testing is a testing technique where individual units of a program are combined and tested as a group.**

1. **What is the difference between White and Black Box Testing?**

**White box testing is a testing technique that focus on the internal mechanism of system.**

**Black box testing is a testing technique that ignore the internal mechanism of the system and focus on the output. It is also known as functional testing.**