Module 3

1. **What is load testing?**

Its a performance testing to check system behavior under load. Testing an  
application under heavy loads, such as testing of a web site under a range of loads to  
determine at what point the system’s response time degrades or fails.

Load testing gives confidence in the system & its reliability and performance.  
Load Testing helps identify the bottlenecks in the system under heavy user stress scenarios  
before they happen in a production environment.

1. **What is stress testing?**

Stress testing is **the process of determining the ability of a computer, network, program or device to maintain a certain level of effectiveness under unfavorable conditions**. The process can involve quantitative tests done in a lab, such as measuring the frequency of errors or system crash

• When a blog is mentioned in a leading newspaper, it experiences a sudden surge in traffic.  
• To check whether the system works under abnormal conditions.  
• Displaying appropriate error message when the system is under stress.  
• System failure under extreme conditions could result in enormous revenue loss  
• It is better to be prepared for extreme conditions by executing Stress Testing.

1. **When to used Usablity Testing?**

This testing mainly focuses on the user’s-ease to use the application, flexibility in handling  
controls and ability of the system to meet its objectives.  
• This testing is recommended during the initial design phase of SDLC, which gives more  
visibility on the expectations of the users.  
• There are two methods available to do usability testing –  
• Laboratory Usability Testing

Usability Testing identifies usability errors in the system early in development cycle and  
can save a product from failure.

1. **What is the procedure for GUI Testing?**

Graphical User Interface (GUI) testing is the process of testing the system’s GUI of the  
System under Test. GUI testing involves checking the screens with the controls like menus,  
buttons, icons, and all types of bars – tool bar, menu bar, dialog boxes and windows etc.  
• WHAT DO YOU CHECK IN GUI TESTING?  
• Check all the GUI elements for size, position, width, length and acceptance of  
characters or numbers. For instance, you must be able to provide inputs to the input  
fields.  
• Check you can execute the intended functionality of the application using the GUI  
• Check Error Messages are displayed correctly  
• Check for Clear demarcation of different sections on screen  
• Check Font used in application is readable  
• Check the alignment of the text is proper  
• Check the Color of the font and warning messages is aesthetically pleasing  
• Check that the images have good clarity  
• Check that the images are properly aligned  
• Check the positioning of GUI elements for different screen resolution.