THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF COMPUTER SCIENCE
B.SC. DEGREE PROGRAMME 2017/2018
NO BOOK TEST 01
CSU5301: SOFTWARE QUALITY ASSURANCE
DURATION: ONE HOUR ONLY (1 HOUR)

Date: 25th June, 2018   Time:4.15pm to 5.15pm

Answer **ALL** Questions.

Question 1

GTCom is a large-scale telecommunications service provider based in Europe and operates in many countries around the world. They want to replace their legacy system with a new enhanced web portal. Following are the key business functionalities expected from the new system.

- The Portal should be able to access from anywhere in the world.
- Customers should be able to register on the portal. The registration page should be loaded by clicking on the **"Register"** link in the BTCom portal Home page.
- The registration process will be based on the customer type (There are two types of customers: **Personal** and **Cooperate**).
- Once successfully registered with the system, the system should generate a Password to the user and should send it to the email address provided.
- The Customer should be able to login to the portal with the **Desired Name** or **Company Name** as the username (Based on the user type) and the Password provided.
- After the successful signing in (login), the Customer should be directed to the Home (Profile) page.
- The Profile page is based on the Customer Type. i.e. if the type of the customer is Personal the Home page should greet with the Customer's Desired Name. If the type of the customer is Cooperate the company logo and the name should be displayed on the Home page.

Assume that you have been assigned to this project as a Software Quality Assurance Engineer, and you have to prepare the QATP. The development team has not yet started the development.

i.
   a. Elaborate the main test design techniques.
   b. What is the technique used to design your test cases? Give reasons.

ii. Derive six (06) test cases to cover the most critical functionalities of the GTCom Portal.

Question 2

i. Define the producer's view of quality and the user's view of quality. Discuss the differences between these two views.

ii. Briefly explain three (03) attributes of quality. Give an example system for each of the attribute you selected where that quality attribute becomes a priority.

iii. Explain Defect life cycle.

iv.

    a. Why should we do static testing. Give three (03) reasons.
    b. How are Static testing supported in the software life cycle?