**RP/ IPRC TUMBA**

**ACADEMIC YEAR: 2019-2020**

**Dept: RE**

**LEVEL 3/ SEMESTER 2**

**MODULE TITLE: AUTOMATION AND CONTROL SYSTEM**

**MODULE CODE: REN302**

**Monday 18th May, 2020**

**ASSIGNMENT 2 /**

1. Write a PLC program to implement the conditional logic statements (a), (b) and (c) below.

a) A lamp controlled by a PLC is to be switched on if neither of three input switches is closed. **/6marks**

b) A lamp controlled by a PLC is to be switched on if any *two* of four input switches are closed but not three or more. **/7marks**

c) A lamp controlled by two start Push-Buttons and three stop switches is to be switched on if either of two input *start* Push-Buttons is pressed and all of three *stop* switches are closed.  **/7marks**

**NB.** To be submitted not later than: **May 31, 2020** before 11:59 PM

* Submission must go through : **RP-elearning platform**
* No email or WhatsApp submission will be accepted
* Copy and paste will not be tolerated
* If you need further clarifications please reach me to my email or Whatsap through: **jniyitegeka@iprctumba.rp.ac.rw /+250788973044**

**Stay safe and protected by washing your hands every time, avoiding shaking your friends or any physical contact!!!!**