UNIVERSITY OF RUHUNA

Faculty of Engineering

Homework 01: Symmetrical Components and Unbalanced Faults

Module Number: EE6207   **Module Name: Power System Analysis**

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Q1   Consider a three-phase supply system having the line-neutral voltages (in volts):

$$V_a = 232\angle 0^0\ V, \quad V_b = 240\angle -121^0\ V, \quad V_c = 242\angle +119^0\ V,$$

Calculate the symmetrical components : V_{a1}, V_{a2}, V_{a0}.