

LAGOS CITY POLYTECHNIC, IKEJA
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
2018/2019 SEMESTER EXAMINATION

COURSE	TITLE: MAINTENANCE	BASIC	HARDWARE
			NO OF QUESTION: 6
COURSE CODE:	COM 223		TIME: ALLOWED:
2HRS			

FOR WHOM: ND II CS FT
INSTRUCTIONS: Answer any four Questions. State ohm's law with mathematical expression and state the units of each of the variables in the expression.

- (b)) What are the resistor colour code for the following:
 Black (ii) Brown (iii) Red (iv) Orange
 (v) Green
2. (a) Draw a simple circuit to represent a series connection of two different 2Ω resistors in parallel with 3Ω resistor all connected to a voltage source 5v dc.
 (b) Calculate the total equivalent resistance in the circuit in 2a above
3. (a) Define measurement in electrical systems and list any 3 physical quantities that can be measured in electrical and electronics system.
 (b) Describe Analogue and Digital measuring instrument/device and state the differences between Analogue and Digital measuring instrument.
4. (a) Simply sketch the connection of ammeter and Voltmeter in measuring circuit
 (i) Current through R_1 and R_2 (ii) Voltage drop across R_1 in the below
 V
- (b) What are the differences between AC and DC source
5. (a) A copper has a resistivity of $0.0178 \Omega\text{mm}^2/\text{m}$ is 80m long with a cross sectional area of 1.5mm^2 . Calculate its resistance
 (b) What are the physical parameters that determines the resistance/conductance of any conductor.
6. (a) Define computer maintenance and computer Troubleshooting
 (b) What are the ways of preventing computer peripherals?