

ELIZADE UNIVERSITY ILARA-MOKIN ONDO STATE

FACULTY: Basic and Applied Sciences

DEPARTMENT: Physical and Chemical Sciences

SECOND SEMESTER EXAMINATIONS

2018/2019 ACADEMIC SESSION

COURSE CODE: PHY 208

COURSE TITLE: WORK SHOP PRACTICE I

DURATION: 3 HOURS

CAN Tai Dele

HOD's SIGNATURE

TOTAL MARKS:

Matriculation Number:

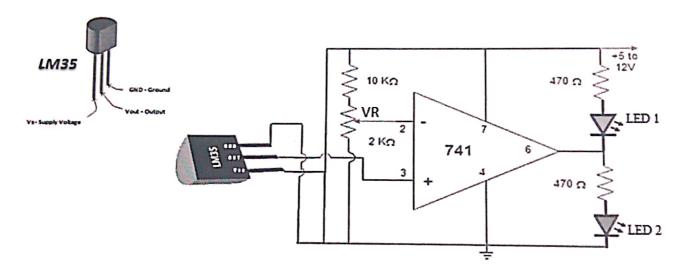
INSTRUCTIONS:

- 1. Write your matriculation number in the space provided above and also on the cover page of the exam booklet.
- 2. This question paper consists of 2 pages with printing on both sides.
- 3. Answer all questions in the examination booklet provided.

GIVEN COMPONENTS: IC LM35, IC LM741, Resistors, Preset, LED (Red and Green), 9V Battery/power supply, wire

THEORY: The IC741 is a non-inverting amplifier which means pin-3 is the input and the output is not inverted. The LM35 circuit has two input terminals namely; non-inverting (+) and inverting (-) terminals and only one output pin. This sensor circuit amplifies the difference between its input terminals. The advantages of this circuit are as follow; no effect on the medium, more accurate, it has an easily conditioned output and it responds instantly.

CIRCUIT:



- 1. What type of IC is LM35 and LM741?
- 2. Draw the circuit lay out of the above circuit diagram
- 3. State the function of the following in the circuit above
 - (i) Variable Resistor VR
 - (ii) LM317
 - (iii). LM741
- 4. Suggest a title for this circuit diagram with the reason and state one major advantage of it
- 5. State three other applications of LM35
- 6. When does LED 1 and 2 light up