GEARBOX ACADEMY

ASSESSMENT 1

A: 17 and above B: 12-16 C: 7-11 D: 6 and below

- 1. Define what an embedded system is and give 2 examples (2mks)
- 2. Identify and explain the 4 major power pins in pico(4mks)
- 3. State the role of PWM in circuits and give the formula for the duty cycle(2mks)
- 4. State the role of ADC in pico and define the meaning of resolution in context with ADC(2mks)
- 5. Illustrate a binary counter system with up to 4 bits in a table(4mks)
- 6. Briefly describe working principle of these sensors (6mks)
 - a. HCSRO4
 - b. LDR
 - c. HCSR501