



# UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

FIRST SEMESTER EXAMINATIONS, NOV/DEC 2018

**COURSE NO:** GL 225

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**COURSE NAME:** PNEUMATICS SYSTEMS

**CLASS:** GD II

**TIME:** 3 HOURS

Name: \_\_\_\_\_ Index Number: \_\_\_\_\_

*Answer ALL questions. Your answers should be concise and include diagrams where necessary.*

1. State three (3) advantages and disadvantages of Pneumatic Systems.
2. List four (4) basic components of a Pneumatic system and state their function(s).
3. State the functions and classification of directional control valves.
4. What are the components that regulate pressure in the Pneumatic system?
5. Draw the symbol for the following pneumatic components.
  - a) Compressor
  - b) Manual control valve
  - c) Filter
  - d) Single acting cylinder
  - e) Double acting cylinder
  - f) Flow control valve
  - g) Receiver
  - h) Non return valve
6. Draw a simple Pneumatic system circuit using at least four (4) major components.
7. State five (5) safety measures when using pneumatic control systems.

***Examiner: N. Yakah***