# BANGWE EDUCATION CLUSTER

#### 2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

#### PHYSICS PAPER I (100 marks) Theory

Thursday, 26th May, 2021.

Subject Number M164/1

#### MARKING KEY Section A (70 marks)

- 1. a. micrometre screw gauge 1 (1 maark)
  - b. measure thickness of object with high precision 1 (1 mark)
  - e. Micrometer screw gauge Reading
    - = 3.5mm on the shaft scale + 33 divisions on the drum scale!
    - $= 3.5 \text{ mm} + (32 \times 0.01) \text{ mm} 1$
    - $= 3.82 \, \mathrm{mm} \, 1$ (3 marks)
- a. help in making an observation and experiments possible 1
  - It become the starting point for the investigation
  - helps in verifying the observation
  - It helps in directing the inquires in the right directions

any one point (1 mark)

- b. Nuclear physics/ electricity and magnetism/ mechanics/ properties of matter/ oscillation and waves, 1 any one point (1 mark)
- c. i. prevents heat loss by conduction 1
  - (1 mark) (1 mark)
  - ii. Prevent heat loss by radiation 1

(1 mark)

- a. i. Pascals' principle!
  - ii. Pressure on small piston = 90N/ 0.004m2

= 22 500N/m<sub>2</sub> 1

Force on large piston = pressure x area of large cylinder

 $= 22 500 \text{ N/m} \times 0.024 \text{m} \cdot 1$ 

= 540N1

(3 marks)

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