



# BANGWE EDUCATION CLUSTER

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

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

Thursday, 26<sup>th</sup> May, 2021.

Subject Number M164/1

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

1. a. micrometre screw gauge 1 (1 mark)  
b. measure thickness of object with high precision 1 (1 mark)  
c. Micrometer screw gauge Reading  
= 3.5mm on the shaft scale + 33 divisions on the drum scale 1  
= 3.5 mm + (32 × 0.01) mm 1  
= 3.82 mm 1 (3 marks)
2. 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)  
ii. Prevent heat loss by radiation 1 (1 mark)
3. a. i. Pascals' principle 1 (1 mark)  
ii. Pressure on small piston =  $90\text{N} / 0.004\text{m}_2$   
= 22 500N/m<sup>2</sup> 1  
Force on large piston = pressure × area of large cylinder  
= 22 500 N/m<sup>2</sup> × 0.024m<sup>2</sup> 1  
= 540N 1 (3 marks)

# Msce Physical Science Paper For 2015

**McGraw-Hill Staff**



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Graduate Programs in Engineering & Applied Sciences 2015 (Grad 5) Peterson's, 2014-11-11 Peterson's Graduate Programs in Engineering Applied Sciences 2015 contains comprehensive profiles of more than 3 850 graduate programs in all relevant disciplines including aerospace aeronautical engineering agricultural engineering bioengineering chemical engineering civil and environmental engineering computer science and information technology electrical and computer engineering industrial engineering telecommunications and more Two page in depth descriptions written by featured institutions offer complete details on a specific graduate program school or department as well as information on faculty research Comprehensive directories list programs in this volume as well as others in the Peterson's graduate series

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