



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 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 = $90\text{N} / 0.004\text{m}_2$
 = $22\,500\text{N/m}_2$ 1
 Force on large piston = pressure × area of large cylinder
 = $22\,500\text{ N/m}_2 \times 0.024\text{m}_2$ 1
 = 540N 1 (3 marks)

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