



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 500N/m² 1
Force on large piston = pressure × area of large cylinder
= 22 500 N/m² × 0.024m² 1
= 540N 1 (3 marks)

Physical Science Msce 2015 Exams

Robert R. Redfield



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records after the original production by troy tate was felt to be inadequate john porter re recorded the album in london manchester and stockport during breaks in the band s uk tour during september 1983

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web solution $v_1 = 250 \text{ l}$ $v_2 = 303 \text{ k}$ $t_1 = 273 \text{ K}$ $t_2 = 343 \text{ K}$ we will be applying charles law as pressure is constant here $v_1 t_1 = v_2 t_2$ or $v_2 = v_1 t_1 \times t_2 / 250 \text{ l} \times 303 \text{ k} / 343 \text{ k} = 283 \text{ l}$ at 90 c a helium sample has a volume of 500 ml determine the temperature at which the volume of the liquid will become 240 ml