



BANGWE EDUCATION CLUSTER

2022 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

PHYSICS
PAPER I
(100 marks)
Theory

Thursday, 26th May, 2021.

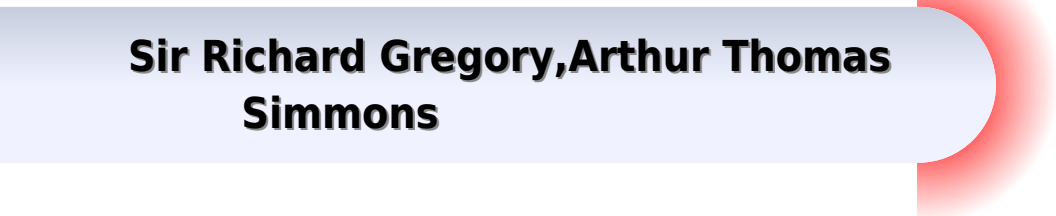
Subject Number M164/1

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)

Msce 2015 Physical Science Practicals

**Sir Richard Gregory, Arthur Thomas
Simmons**



Msce 2015 Physical Science Practicals:

Corrosion of Steel in Concrete Structures Amir Poursaee, 2023-02-20 Essential reading for researchers practitioners and engineers this book covers not only all the important aspects in the field of corrosion of steel reinforced concrete but also discusses new topics and future trends Theoretical concepts of corrosion of steel in concrete structures the variety of reinforcing materials and concrete including stainless steel and galvanized steel measurements and evaluations such as electrochemical techniques and acoustic emission protection and maintenance methods and modelling latest developments and future trends in the field are discussed Comprehensive coverage of the corrosion of steel bars in concrete investigating the range of reinforcing materials and types of concrete Introduces the latest measuring methods data collection and advanced modeling techniques Second edition covers a range of new emerging topics such as the concept of chloride threshold value concrete permeability and chloride diffusion the role of steel microstructure and innovations in corrosion detection devices *American Men and Women of Science*, 1982 *Directory [of] Officers, Faculty, and Staff and Associated Organizations* University of Michigan, 2000 **Who's who in Engineering**, 1991 *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis, Marquis Who's Who, 2007-12 **Stroke** A David Mendelow, 2015-08-24 Offered in print online and downloadable formats this updated edition of *Stroke Pathophysiology Diagnosis and Management* delivers convenient access to the latest research findings and management approaches for cerebrovascular disease Picking up from where J P Mohr and colleagues left off a new team of editors Drs Grotta Albers Broderick Kasner Lo Mendelow Sacco and Wong head the sixth edition of this classic text which is authored by the world's foremost stroke experts Comprehensive expert clinical guidance enables you to recognize the clinical manifestations of stroke use the latest laboratory and imaging studies to arrive at a diagnosis and generate an effective medical and surgical treatment plan Abundant full color CT images and pathology slides help you make efficient and accurate diagnoses Data from late breaking endovascular trials equips you with recent findings Includes comprehensive coverage of advances in molecular biology of cell death risk factors and prevention advances in diagnostics and stroke imaging and therapeutic options including a thorough review of thrombolytic agents and emerging data for endovascular therapy Features brand new chapters on Intracellular Signaling Mediators and Protective Responses The Neurovascular Unit and Responses to Ischemia Mechanisms of Cerebral Hemorrhage Stroke Related to Surgery and Other Procedures Cryptogenic Stroke and Interventions to Improve Recovery after Stroke Highlights new information on genetic risk factors primary prevention of stroke infectious diseases and stroke recovery interventions such as robotics brain stimulation and telerehabilitation and trial design Details advances in diagnostic tests such as ultrasound computed tomography including CT angiography and CT perfusion MRI including MR perfusion techniques and angiography Includes extracted and highlighted evidence levels Expert Consult eBook version included with print purchase This enhanced eBook experience allows you to search all of the text figures and references on a variety of devices The

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