



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

IM Harris



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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Table of Contents Msce 2015 Physical Science Practicals

1. Understanding the eBook Msce 2015 Physical Science Practicals
 - The Rise of Digital Reading Msce 2015 Physical Science Practicals
 - Advantages of eBooks Over Traditional Books
2. Identifying Msce 2015 Physical Science Practicals
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Msce 2015 Physical Science Practicals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msce 2015 Physical Science Practicals
 - Personalized Recommendations
 - Msce 2015 Physical Science Practicals User Reviews and Ratings

- Msce 2015 Physical Science Practicals and Bestseller Lists
- 5. Accessing Msce 2015 Physical Science Practicals Free and Paid eBooks
 - Msce 2015 Physical Science Practicals Public Domain eBooks
 - Msce 2015 Physical Science Practicals eBook Subscription Services
 - Msce 2015 Physical Science Practicals Budget-Friendly Options
- 6. Navigating Msce 2015 Physical Science Practicals eBook Formats
 - ePub, PDF, MOBI, and More
 - Msce 2015 Physical Science Practicals Compatibility with Devices
 - Msce 2015 Physical Science Practicals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msce 2015 Physical Science Practicals
 - Highlighting and Note-Taking Msce 2015 Physical Science Practicals
 - Interactive Elements Msce 2015 Physical Science Practicals
- 8. Staying Engaged with Msce 2015 Physical Science Practicals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msce 2015 Physical Science Practicals
- 9. Balancing eBooks and Physical Books Msce 2015 Physical Science Practicals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msce 2015 Physical Science Practicals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Msce 2015 Physical Science Practicals
 - Setting Reading Goals Msce 2015 Physical Science Practicals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Msce 2015 Physical Science Practicals
 - Fact-Checking eBook Content of Msce 2015 Physical Science Practicals
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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