



NATIONAL SENIOR CERTIFICATE EXAMINATION

2016

ENGINEERING GRAPHICS AND DESIGN

PAPER 2

MARKS: 200
TIME: 3 HOURS

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This question paper consists of 7 pages including the cover page and 4 questions.
2. All the questions must be answered.
3. Unless specified otherwise, all questions are in **Third Angle Orthographic Projection**.
4. Unless specified otherwise, all questions are to be completed to a scale of 1:1.
5. All answer sheets must be **stapled** in numerical order and handed in, even **unattempted/blank** questions.
6. All **construction work** must be shown, even if a stencil was used.
7. Print your **examination number** neatly on each page.
8. Use only the **answer sheets** provided.
9. Your drawings should be **well presented** and reflect **neatness** and **accuracy**. Marks will be **deducted** for untidy and inaccurate work.
10. Any dimensions or detail not given may be **assumed** in **good proportion**.
11. **Stencils** and **calculators** may be used.
12. All drawings must adhere to the **SANS 10111-1**.
13. In order to save time, **detailed assembly parts** must be drawn to **convention**.



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QUESTION	SECTION	MARK	MODERATED	MAXIMUM	CODE
1	MECHANICAL ANALYTICAL			20	
2a	LOCUS CAM			20	
2b	LOCUS MECHANISM			20	
3	ISOMETRIC DRAWING			40	
4	MECHANICAL ASSEMBLY			100	
SYMBOL	TOTAL			200	
	TOTAL			100	

FINAL CONVERTED MARK

CHECKED BY

100

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Fueled by the growing demand for biobased lubricants *Environmentally Friendly and Biobased Lubricants* highlights the development of environmentally friendly additives that are compatible with environmental regulations and describes the approaches being used in this emerging area. Derived from research topics shared over the years at various technical sessions of the Society of Tribologists and Lubrication Engineers STLE Annual Meetings the book includes a critical assessment of gaps and weaknesses in the field of environmentally friendly fluids and biobased lubricants. Each chapter is written by authors selected from the environmentally friendly fluids and biobased lubricants sessions of STLE and also incorporates input from prominent researchers invited to take part in the book. Expert contributors discuss the control production usage and disposal of lubricants factor in related policies laws and regulations around the world and include case studies demonstrating the uses and values of commercially viable biobased lubricants. The book is divided into five sections that cover advanced environmentally friendly base oils and feedstocks biobased hydraulic lubricants and biodegradability chemically enzymatically modified environmentally friendly base oils vegetable oil based environmentally friendly fluids and additives for environmentally friendly fluids.

List of Bureau of Mines Publications and Articles ... with Subject and Author Index United States. Bureau of Mines, 1965

[Lewis's Medical-Surgical Nursing in Canada - E-Book](#) Jane Tyerman, Shelley Cobbett, Mariann M. Harding, Jeffrey Kwong, Dottie Roberts, Debra Hagler, Courtney Reinisch, 2022-04-20

Master the role and skills of the medical surgical nurse in Canada with the book that has it all *Lewis's Medical Surgical Nursing in Canada: Assessment and Management of Clinical Problems* 5th Edition reflects the expertise of nurses from across Canada with evidence informed guidelines a focus on clinical trends and a review of pathophysiology. Clear examples make it easy to understand every concept in nursing care from health promotion to acute intervention to ambulatory care. An Evolve website includes new case studies to enhance your skills in clinical judgement and prepare you for the Next Generation NCLEX CPNRE and REx PNTM. From Canadian educators Jane Tyerman and Shelley L Cobbett this comprehensive guide provides a solid foundation in perioperative care as well as nursing care of disorders by body system. Easy to understand content is written and reviewed by leading experts in the field ensuring that information is comprehensive current and clinically accurate. More than 800 full colour illustrations and photographs demonstrate disease processes and related anatomy and physiology. Focus on key areas includes the determinants of health patient and caregiver teaching age related considerations collaborative care cultural considerations nutrition home care evidence informed practice and patient safety. Nursing Assessment chapters focus on individual body systems and include a brief review of related anatomy and physiology a discussion of health history and non invasive physical assessment skills and note common diagnostic studies expected results and related nursing responsibilities. Unfolding case studies in each assessment chapter help you apply important concepts and procedures to real life patient care. UNIQUE Levels of Care approach organizes nursing management into three levels health promotion acute intervention and ambulatory and home care. Nursing Management chapters focus on the

pathophysiology clinical manifestations laboratory and diagnostic study results interprofessional care and nursing management of various diseases and disorders and are organized to follow the steps of the nursing process assessment nursing diagnoses planning implementation and evaluation Safety Alerts and Drug Alerts highlight important safety issues in patient care Informatics boxes discuss the importance and use of technology with topics such as use of social media in the context of patient privacy teaching patients to manage self care using smartphone apps and using Smart infusion pumps Cultural Competence and Health Equity in Nursing Care chapter discusses culture as a determinant of health especially in regard to Indigenous populations health equity and health equality issues as they relate to marginalized groups in Canada and practical suggestions for developing cultural competence in nursing care More than 60 comprehensive nursing care plans on the Evolve website include defining characteristics expected outcomes specific nursing interventions with rationales evaluation criteria and collaborative problems

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