



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

EXAMINATION NUMBER

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Grade1egd Paper2 November 2014

K Morrison



Grade1egd Paper2 November 2014:

Environmentally Friendly and Biobased Lubricants Brajendra K. Sharma, Girma Biresaw, 2016-09-19 A Comprehensive Review of Developing Environmentally Friendly Lubricants A push from environmentally savvy consumers along with recent changes in governmental regulations have paved the way for a marketplace of products with high levels of environmental performance 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

Embracing the Beat of Phrase: An Psychological Symphony within **Grade1egd Paper2 November 2014**

In a world consumed by screens and the ceaseless chatter of instantaneous interaction, the melodic elegance and emotional symphony created by the written word often diminish into the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. Nevertheless, nestled within the pages of **Grade1egd Paper2 November 2014** a marvelous literary treasure brimming with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that fascinating masterpiece conducts readers on a mental trip, skillfully unraveling the concealed melodies and profound influence resonating within each carefully constructed phrase. Within the depths of this poignant assessment, we shall explore the book is main harmonies, analyze their enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

https://staging.conocer.cide.edu/files/scholarship/index.jsp/Estiramientos_Energia_Y_Relajacion.pdf

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