

## MEMORANDUM

### QUESTION 1

(16 MARKS)

1.1 What is a scalar quantity? (1)

Quantity with magnitude only ✓✓

1.2 A Hyundai Accent moves from rest and accelerate for 20 seconds and reaches a speed of 72 km/h. It continues with the uniform velocity for 10 seconds and driver brakes and the car stop after 10 seconds.

1.2.1 Make a sketch of a velocity-time graph



Calculate the following:

1.2.2 The acceleration in the first 20 seconds.

$$a = \frac{v - u}{t} = \frac{20 - 0}{20} \checkmark = 1 \text{ ms}^{-2} \checkmark$$

1.2.3 Total distance

$$s = \text{area under curve} = \frac{1}{2}(10 + 40)20 \checkmark = 500 \text{ m} \checkmark$$

1.2.4 The average velocity in 40 seconds.

$$\text{average} = \frac{\text{displacement}}{\text{time}} = \frac{500}{40} \checkmark = 12.5 \text{ ms}^{-1} \checkmark$$

(3 × 2)

(6)

# Engineering Sciene N3

**SJ Ball**



### **Engineering Science N3:**

Engineering Science N4 Rousseau,1994-12      Engineering Science Cornelius Louis Moolman,1989      **Engineering Science** Tommy Ferreira,2012      **Engineering Science** R. P. Maltby,2018      **Engineering Science N3 Student's Book** MJJ van Rensburg,2014      Engineering Science N3 Marthinus Johannes Janse Van Rensburg,Andries Sarel Van Rooyen,1998      **Engineering Science N3** Marthinus Johannes Janse Van Rensburg,Andries Sarel Van Rooyen,1995      **A Ten Week Course in Engineering Science** Douglas Stanley Baragwanath,Gerhard Olivier,1985      **A Ten Week Course in Engineering Science** Gerhard Olivier,2001      **N3 Engineering Science** Tommy Ferreira,2012      **Engineering Science** John Dillon,2016      *Geographic Index of Environmental Articles* ,1992      **Transforming Further Education and Training in South Africa: Qualitative findings and analysis** Andre Kraak,Graham Hall,1999 This book contains eight papers from a detailed study of technical college provision in KwaZulu Natal South Africa that raised the following four issues relevant to the transformation of technical colleges across South Africa 1 the teaching and learning environment at technical colleges is suboptimal 2 social relations at the technical colleges are tense with few institutions having successfully come to terms with the rapid deracialization of student enrollments in recent years 3 the labor market surrounding technical colleges appears totally dysfunctional with few students obtaining employment after technical college training and 4 the separate development policies of the past necessitate institutional restructuring The following papers are included A Study of Technical Colleges in KwaZulu Natal A Methodological Introduction Andre Kraak Graham Hall Problems Facing Further Education and Training Andre Kraak Planning Imperative New Policy Framework in FET Further Education and Training Andre Kraak Socio Economic and Educational Profile of KwaZulu Natal Nisaar Mahomed Quantitative Overview of the Technical Colleges of KwaZulu Natal Graham Hall Learning Teaching and Management Environment Evidence from Qualitative Studies Andre Kraak Autonomy and Responsiveness Evidence from the Qualitative Case Studies Andre Kraak and Critical Overview The Need for Labour Market and Institutional Reform Andre Kraak The bibliography contains 52 references MN      **N3 Engineering Science** ,2018      N3 Engineering Science John Dillon,2016      Standard Distribution for Unclassified U.S. Nuclear Regulatory Commission Publications U.S. Nuclear Regulatory Commission. Division of Technical Information and Documentation Control,1979      **Kaapse bibliotekaris** ,1996 Issues for Nov 1957 include section Accessions Aanwinste Sept 1957      African Books in Print ,1993      *South African national bibliography* ,1999 Classified list with author and title index      *Current Index to Journals in Education* ,2002

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Words ... Amahl and the Night Visitors Opera in One Act Words and Music by Gian-Carlo Menotti. [Piano-vocal score] New York/London: G. Schirmer [PN 42736], [1952]. Amahl And The Night Visitors - Vocal Score by Gian Carlo ... This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Amahl and the Night Visitors Features: This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Table of Contents: ... Amahl And The Night Visitors - Vocal Score This vocal score is a new and revised edition of the well-known opera that made television history on Christmas Eve, 1951. Song List:.