

UNIVERSITY EXAMINATIONS



UNIVERSITEITSEKSAMENS

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PHY1505
MECHANICS (PHYSICS)

(470233)

October/November 2013

Duration 2 Hours

100 Marks

EXAMINERS :
FIRST

PROF ML LEKALA

PROF GJ RAMPHO

Use of a non-programmable pocket calculator is permissible

Closed book examination.

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- This paper consists of 5 pages plus instructions for the completion of a mark reading sheet
- This examination consists of two sections **SECTION A** and **SECTION B**
- Answer **SECTION A** (Multiple Choice) on the mark reading sheet
- Answer **SECTION B** (Written Solutions) on the examination answer book
- Marks allocation for each question is indicated in brackets to the right
- The information given at the end of Section B may be used without proof

SECTION A (Multiple Choice)

1. A basketball is launched with an initial speed of 8.5 m/s and follows the trajectory shown. The ball enters the basket 0.92 s after it is launched. What are the distances x and y ? *Note: The drawing is not to scale.*

- 1) $x = 6.0$ m, $y = 0.88$ m
- 2) $x = 5.4$ m, $y = 0.73$ m
- 3) $x = 5.7$ m, $y = 0.91$ m
- 4) $x = 7.6$ m, $y = 1.1$ m
- 5) $x = 6.3$ m, $y = 0.96$ m



(3)

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SJ Ball



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