

# 2010 CHIEF MARKER PUBLICATION REPORT ON MARKING

## INSTRUCTIONS FOR COMPLETION

- The report on marking is a comprehensive report that will serve the following three objectives:
  - Provide an evaluation of the question paper and marking guideline.
  - Provide an in-depth analysis of the nature of learner responses, which will facilitate feedback to teaching and learning.
- This report must be completed by the **CHIEF MARKER in conjunction with the senior markers.**
- The report must be completed in detail and single word responses will not be accepted.
- Where additional space may be required, use a separate page which must be appended to this report.
- The final report must be approved and signed by the Head of Examinations in the province.
- The report must be submitted to the responsible WCED official at the marking centre.

<b>SUBJECT</b>	<b>PHYSICAL SCIENCES</b>	
<b>PAPER</b>	<b>PAPER 1 (PHYSICS)</b>	
<b>GRADE</b>	<b>12</b>	<b>DURATION OF PAPER : 3 HOURS</b>
<b>PROVINCE</b>	<b>WCED</b>	
<b>CHIEF MARKER</b>	<b>NAME: R.BERNARDO</b> <b>CONTACT DETAILS:</b> <b>ronelb@bolandlandbou.co.za</b> <b>084 583 4387</b>	

## PART ONE: EVALUATION OF QUESTION PAPER AND MARKING GUIDELINE

### 1. COMMENTS ON SPECIFIC QUESTIONS. (SEE PART TWO QUESTION 1 AND 2 OF THIS DOCUMENT)

<p>Question 1: Well answered/Goed beantwoord. The candidates who well prepared performed exceptionally well while those who were unprepared faired poorly. Die kandidate wat goed voorbereid was het uitsonderlik goed gevaar, terwyl dié wat nie voorbereid was nie, swak gevaar het.</p>
<p>Question 2: Well answered/Goed beantwoord.</p>
<p>Question 3:</p> <p>3.1 Well answered/Goed beantwoord.</p> <p>3.2 Although this question was well-answered, many candidates failed to add the height of the cliff to their calculated answer. Candidates confused <math>\Delta y</math> as being the maximum height. Alhoewel hierdie vraag goed beantwoord is, het baie kandidate nie daarin geslaag om die hoogte van die rots by te tel nie. Kandidate het <math>\Delta y</math> as die maksimum hoogte gebruik.</p> <p>3.3 Many candidates still lack the skill of graph sketching. They could not interpret the instruction. Many candidates sketched a of position versus time graph which indicated a constant velocity while others simply sketched a velocity versus time graph. Baie kandidate kon nog steeds nie die grafiek teken nie. Hulle kon nie die instruksie verstaan nie. Baie kandidate het 'n posisie-tyd-grafiek geteken, wat 'n konstante snelheid aandui, terwyl ander eenvoudig 'n snelheid-tyd-grafiek geteken het.</p> <p>3.4.1 Reasonably well answered/Redelik goed beantwoord...</p> <p>3.4.2 Poorly answered/Swak beantwoord.</p>
<p>Question 4:</p> <p>4.1 Poorly answered. Many candidates confused this question with the principle of conservation of linear momentum / energy and not mechanical energy. Swak beantwoord. Baie kandidate het hierdie vraag verwar met die beginsel van behoud van liniêre momentum/energie en nie meganiese energie nie.</p> <p>4.2 Many candidates applied the principle of mechanical energy instead of calculating the mechanical energy at that point. Baie kandidate het die beginsel vna meganiese energie toegepas in plaas daarvan om</p>

4.3	<p>die meganiese energie by daardie punt te bereken.</p> <p>Many candidates failed to apply both conservation laws (i.e. mechanical energy and linear momentum) in this question.</p> <p>Baie kandidate kon nie beide behoudswette (meganiese energie en liniêre momentum) in hierdie vraag toepas nie.</p>
Question 5:	
5.1	Poorly answered/Swak beantwoord.
5.2	<p>Many candidates failed to see the relationship between F and <math>\Delta x</math> in the equation <math>W = F\Delta x \cos\theta</math></p> <p>Baie kandidate het nie daarin geslaag om die verwantskap tussen F en <math>\Delta x</math> in die vergelyking <math>W = F\Delta x \cos\theta</math> raak te sien nie.</p>
5.3	Reasonably well answered/Redelik goed beantwoord.
5.4	Well answered/Goed beantwoord.
5.5	<p>Poorly answered. Once again the candidates failed to see the relationship between <math>F_{\text{horizontal}}</math> and <math>\cos\theta</math> in the formula <math>W = F\Delta x \cos\theta</math></p> <p>Swak beantwoord. Weereens het die kandidate nie daarin geslaag om die verwantskap tussen <math>F_{\text{horizontal}}</math> en <math>\cos\theta</math> in the formula <math>W = F\Delta x \cos\theta</math> raak te sien nie.</p>
Question 6:	
6.1	Very well answered/Baie goed beantwoord.
6.2	Well answered/Goed beantwoord.
6.3	Well answered/Goed beantwoord.
Question 7:	
7.1	Well answered/Goed beantwoord.
7.2	Well answered/Goed beantwoord.
7.3	Well answered/Goed beantwoord.
Question 8:	
8.1	Well answered/Goed beantwoord.
8.2	Well answered/Goed beantwoord.
8.3	Well answered/Goed beantwoord.
8.4	Well answered/Goed beantwoord.
Question 9:	
This whole question was poorly answered.	
Hierdie hele vraag is swak beantwoord.	
Question 10	
This whole question was poorly answered.	
Hierdie hele vraag is swak beantwoord.	
Question 11	
This whole question was well answered/Hierdie hele vraag was goed beantwoord.	
Question 12	
This whole question was well answered/Hierdie hele vraag was goed beantwoord.	

<b>CHIEF MARKER: (SIGNATURE)</b>	
<b>HEAD OF EXAMINATION:</b>	