



## CHIEF MARKER'S REPORT

SUBJECT:	MECHANICAL TECHNOLOGY
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### 1. ANALYSIS OF QUESTION BY QUESTION PERFORMANCE

#### QUESTION 1

It was not well answered learners were mostly guessing the answers. Average of 50%. There where few errors from the answering scripts of learners where some left columns without ticking the correct answer, others didn't use the columns but answered on the paper. 1.11 & 1.16 had two correct answers. 1.11 (D & C) and 1.16 (B & A) this might confuse the learners and delay them making decisions on which answer to select.

#### QUESTION 2

Learners seems to be confuse with Q.2.1.Learners are familiar with hydraulics and levers when they are dealt with separately. This makes the question very tricky. Q.2.2 Learners were selecting the wrong cylinder (instead of C they selected A) and this contributed to a wrong calculation. Marks could have been awarded to substitution of 2.1.1 (determine the pressure of piston B) and not only the formulae and the answer.  
Q.2.2.2. Created more confusion to the learners to determine the strain in cylinder A

#### QUESTION 3

Learners perform poorly. Possible reasons: inadequate revision on Tools & Equipment in preparation for the exam. Teachers to use different books for research. Teachers to carry out practical demonstrations using advance tools and equipment with the learners.

#### **QUESTION 4**

Question 4.3 scenario created a confusion whereby learners referred to the toughness of the **Hammer** instead of the **Test piece**. The test piece is not visible enough for learners to connect to the scenario.

#### **QUESTION 5**

Well answered by most learners with the exception of question 5.1. This could be associated with teachers overlooking areas they don't specialize in or not have the facilities and equipment to demonstrate. Candidates have accumulated marks from this question, due to an open – ended question (5.1) on safety. Teachers to pay attention to welding defects / causes / remedies. Calculations (fitting & turning) was also a challenge to some learners.

#### **QUESTION 6**

This was also a well answered question by the learners. Although the sketch in Q.6.3 is not in the text books used by most teachers (approved text book). Teachers are encourage to use different text book when doing revision, along side with past question papers.

#### **7. ANY ADVICE THAT YOU COULD GIVE TO EDUCATORS TO HELP LEARNERS TO REACH THE EXPECTED LEVELS**

Teachers: to follow the NCS & SAG, content document and exam guidelines.  
: to prepare learners in higher order questions as much as possible.  
: teach learners to make use of given information sheet when choosing formulas.

#### **8. ANY OTHER COMMENTS**

Basic workshop equipments to be supplied to schools for teachers to be more functional (demonstrations ref: Q.3 & Q.4.)

Due to the Trial Exam question paper being used as a revision document and not an exam, lowered the expected standards, holistic approach should be applied to all subjects.