



basic education

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**QUALITATIVE ANALYSIS OF LEARNER RESPONSES**  
**NATIONAL SENIOR CERTIFICATE 2020**  
**WESTERN CAPE EDUCATION DEPARTMENT**

|                            |                                               |
|----------------------------|-----------------------------------------------|
| <b>SUBJECT</b>             | CIVIL TECHNOLOGY (CIVIL SERVICES)             |
| <b>PAPER</b>               | 1                                             |
| <b>DURATION OF PAPER</b>   | 3 HOURS                                       |
| <b>INTERNAL MODERATOR</b>  | JP ELLIS                                      |
| <b>CHIEF MARKER</b>        | E ANTHONY                                     |
| <b>DATES OF MARKING</b>    | <b>FROM:</b> 03:01:2021 <b>TO:</b> 16:01:2021 |
| <b>HEAD OF EXAMINATION</b> | MS TINA SINGH                                 |

**REPORT 2: QUALITATIVE ANALYSIS OF LEARNER RESPONSES**

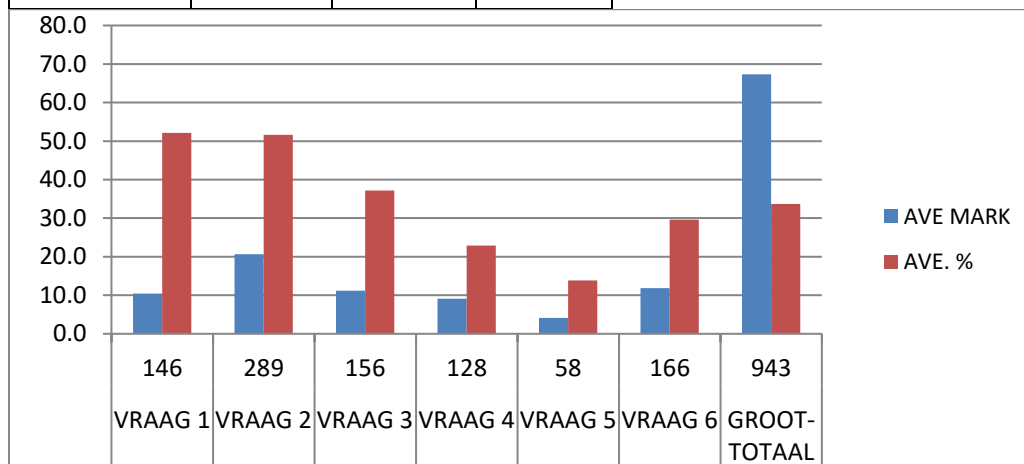
**SECTION 1: (GENERAL OVERVIEW OF LEARNER PERFORMANCE IN THE QUESTION PAPER AS A WHOLE)**

It is evident that the 2019 learners had a much better outcomes than the 2020 candidates in the 2020 NSC examination. Candidates for Civil Services will produce a decline in the results in this year's question paper. Therefore, the quality of passes will not be impressive. Your lower cognitive level candidates also found this challenging as they really struggle to interpret basic cognitive level paradigm questions. In general, the question paper was accommodative to all candidates as it is evident that the generic questions (question ONE and TWO) were well answered by the 2020 candidates. Two learners scored above 50 %. Only the minority of the 2020 candidates really struggle to interpret certain questions and did not read with understanding in the generic questions overall. The question paper was fair many as 85% of the candidates attempted and answered all the questions. In some cases, candidates really showed immaturity in answering a fairly easy to average challenging question paper. The question paper in general covered all the required aspects as set out in the CAPS document and fairly tested all skills, knowledge and embedded creative thinking of ALL candidates. 15 % of learners could not interpret certain question as they struggled or even did not attempt to answer certain questions. Due to a lack of reading competency for English across the curriculum evidence shows candidates have a 20% back-log on poor judgement as responses to questions.

Although the question paper was fair and accommodative you could sense that candidates made vital and silly mistakes, especially expressing their knowledge and skills in drawings and calculations.

**This question paper was answered below average as indicated in the 100 scripts analysis.**

|                     |            | AVE<br>MARK  | AVE. %      |
|---------------------|------------|--------------|-------------|
| VRAAG 1             | 146        | 10.4         | 52.1        |
| VRAAG 2             | 289        | 20.6         | 51.6        |
| VRAAG 3             | 156        | 11.1         | 37.1        |
| VRAAG 4             | 128        | 9.1          | 22.9        |
| VRAAG 5             | 58         | 4.1          | 13.8        |
| VRAAG 6             | 166        | 11.9         | 29.6        |
| <b>GROOT-TOTAAL</b> | <b>943</b> | <b>67.36</b> | <b>33.7</b> |



## **SECTION 2: COMMENT ON CANDIDATES' PERFORMANCE IN INDIVIDUAL QUESTIONS**

*(It is expected that a comment will be provided for each question)*

### **QUESTION 1**

**(a) General comment on the performance of learners in the specific question. Was the question well answered or poorly answered?**

Question 1 was average answered. The average for question 1 was 33, 7 %as indicated in the data analysis of the first 14 scripts captured. Question 1.3 – Many learners either left it blank or got it wrong.

**(b) Why was the question answered poorly? Also provide specific examples, indicate common errors committed by learners in this question, and any misconceptions.**

Common errors made by candidates are that they do not understand basic terminology and concepts used in question 1. (1.6.1) – Candidates were not able to identify the correct name of the Multi-detector.

Candidates find it difficult to compare comprehend or understand of what the question ask for.

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| <b>(c) Provide suggestions for improvement in relation to Teaching and Learning.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| It is advised that more focus should be placed on terminology and basic construction processes related to Civil Services. More emphasis should be place on understanding the question and articulating the response.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>(d) Describe any other specific observations relating to responses of learners and comments that are useful to teachers, subject advisors, teacher development etc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>Good practices recommended are:</p> <ul style="list-style-type: none"> <li>• Educators to formulate a variety of questions from chapters related to question one. Not only focus on the textbook activity questions and test candidate's general knowledge pertaining questions/content from chapters related to question one.</li> <li>• Educators should use application of practical knowledge and skills to equip learners to be able answer questions in question one.</li> <li>• Working through past NSC exam papers.</li> <li>• To familiarized learners with the format and layout of certain questions and the responses to the questions.</li> <li>• Candidates need to do informal tests and set themselves benchmarks in order to perform better.</li> <li>• Candidates do not know how to structure a sentence to give a logical answer to the question.</li> </ul> |

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| <b>QUESTION 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>(a) General comment on the performance of learners in the specific question. Was the question well answered or poorly answered?</b>                                                                                                                                                                                                                                                                                                                                                        |
| Question 2 was well answered in comparison to the other five questions. The average for question 2 was 57, 6 %as indicated in the data analysis of the first 100 scripts captured.                                                                                                                                                                                                                                                                                                            |
| <b>(b) Why was the question answered poorly? Also provide specific examples, indicate common errors committed by learners in this question, and any misconceptions.</b>                                                                                                                                                                                                                                                                                                                       |
| <p>The questions that were affected were</p> <p>2.6 – candidates could not identify the clamp/holderbat</p> <p>2.8 - candidates could not correctly identify the shoe/downpipe outlet.</p> <p>2.22 – candidates were not able to analyse the description in the notes from Figure 2.</p> <p>2.27 - candidates could not correctly name the material used to close the open sides of the stairs.</p> <p>Candidates are still struggling with basic calculations in question 2.29 and 2.30.</p> |
| <b>(c) Provide suggestions for improvement in relation to Teaching and Learning.</b>                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>More emphasis should be place on understanding the question and communicate a response relating to the question.</p> <p>Candidates should be exposed to activities related to SANS symbols and interpretation of drawings.</p> <p>Candidates should be reading all questions with understanding to demonstrate or explain hidden detail.</p>                                                                                                                                               |

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| <b>(d) Describe any other specific observations relating to responses of learners and comments that are useful to teachers, subject advisors, teacher development etc.</b>                                                                                                                                                                                  |
| <p>Good practices recommended are:</p> <ul style="list-style-type: none"> <li>• Educators to formulate a variety of questions related to SANS symbols and interpretation of drawings.</li> <li>• Working through past NSC exam papers.</li> <li>• Candidates need to do informal tests and set themselves benchmarks in order to perform better.</li> </ul> |

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| <b>QUESTION 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>(a) General comment on the performance of learners in the specific question. Was the question well answered or poorly answered?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p>Question 3 was answered averagely in comparison to the other five questions with an average of 32 % as indicated in the data analysis of the only 14 scripts.</p> <p>Question 3.1 subdivisions 3.5 – Candidates could not answer multiple choice questions.</p> <p>Candidates could not differentiate between brickwork and types of bricks.</p> <p>Question 3.6 – Candidates could not draw the section through a manhole and interpret the given assessment criteria. 80 % obtained zero marks for calculations of volumes</p>                                              |
| <b>(b) Why was the question answered poorly? Also provide specific examples, indicate common errors committed by learners in this question, and any misconceptions.</b>                                                                                                                                                                                                                                                                                                                                                                                                          |
| Candidates did not understand the content which was evident in not attempting the question.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>(c) Provide suggestions for improvement in relation to Teaching and Learning.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Teachers must focus on verbs and nouns in the question in order to guide learners to answer the questions                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>(d) Describe any other specific observations relating to responses of learners and comments that are useful to teachers, subject advisors, teacher development etc.</b>                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>• Educators should use application of practical knowledge and skills to equip learners to be able answer questions in question one.</li> <li>• Working through past NSC exam papers.</li> <li>• To familiarized learners with the format and layout of certain questions and the responses to the questions.</li> <li>• Candidates need to do informal tests and set themselves benchmarks in order to perform better.</li> <li>• Candidates do not know how to structure a sentence to give a logical answer to the question.</li> </ul> |

| <b>QUESTION 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        |
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| <b>(a)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>General comment on the performance of learners in the specific question. Was the question well answered or poorly answered?</b>                                     |
| <p>Question 4 was answered poorly with only five candidates obtained double digits out of 40 marks.</p> <p>Question 4.1 – Candidates could not identify the incorrect version of a single line diagram of the layout of a geyser.</p> <p>Question 4.6 – Candidate could not explain the content on red water diverter.</p> <p>Question 4.9 – Candidates struggle with solar water heating systems which was answered by only 10 % of learners.</p>                                                                                                                               |                                                                                                                                                                        |
| <b>(b)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Why was the question answered poorly? Also provide specific examples, indicate common errors committed by learners in this question, and any misconceptions.</b>    |
| Candidates did not understand the terminology in the question. (Hot water and cold water supply).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                        |
| <b>(c)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Provide suggestions for improvement in relation to Teaching and Learning.</b>                                                                                       |
| Practical models must be displayed in the classroom for learners to engage with the different parts and fittings as a unit.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                        |
| <b>(d)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Describe any other specific observations relating to responses of learners and comments that are useful to teachers, subject advisors, teacher development etc.</b> |
| <ul style="list-style-type: none"> <li>• Educators should use application of practical knowledge and skills to equip learners to be able answer questions in question one.</li> <li>• Working through past NSC exam papers.</li> <li>• To familiarized learners with the format and layout of certain questions and the responses to the questions.</li> <li>• Candidates need to do informal tests and set themselves benchmarks in order to perform better.</li> <li>• Candidates do not know how to structure a sentence to give a logical answer to the question.</li> </ul> |                                                                                                                                                                        |

| <b>QUESTION 5</b>                                                                                                                                                               |                                                                                                                                                                     |
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| <b>(a)</b>                                                                                                                                                                      | <b>General comment on the performance of learners in the specific question. Was the question well answered or poorly answered?</b>                                  |
| <p>Question 5 was answered very poorly and only two candidates scored double digits.</p> <p>Question 5.7 – Candidates were not able to do developments of sheet metal work.</p> |                                                                                                                                                                     |
| <b>(b)</b>                                                                                                                                                                      | <b>Why was the question answered poorly? Also provide specific examples, indicate common errors committed by learners in this question, and any misconceptions.</b> |
| Candidates lack drawing and interpretation skills of sheet metal developments.                                                                                                  |                                                                                                                                                                     |
| <b>(c)</b>                                                                                                                                                                      | <b>Provide suggestions for improvement in relation to Teaching and Learning.</b>                                                                                    |
| More focused exercises on development drawings.                                                                                                                                 |                                                                                                                                                                     |

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| <b>(d)</b> | <b><i>Describe any other specific observations relating to responses of learners and comments that are useful to teachers, subject advisors, teacher development etc.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | <ul style="list-style-type: none"> <li>• Educators should use application of practical knowledge and skills to equip learners to be able answer questions in question one.</li> <li>• Working through past NSC exam papers.</li> <li>• To familiarized learners with the format and layout of certain questions and the responses to the questions.</li> <li>• Candidates need to do informal tests and set themselves benchmarks in order to perform better.</li> <li>• Candidates do not know how to structure a sentence to give a logical answer to the question.</li> </ul> |

| <b>QUESTION 6</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(a)</b>        | <b><i>General comment on the performance of learners in the specific question. Was the question well answered or poorly answered?</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                   | <p>Question 6 was answered well by most of the learners.</p> <p>Question 6.2 was a challenge as candidates could not explained the joining methods of PVC pipes.</p> <p>Question 6.5 - Candidates were not able to make a drawing of a layout of a sewerage plan which counted 30 % of the question.</p> <p>Question 6.3.1 Candidates could not differentiate between soil and wastewater.</p>                                                                                                                                                                                   |
| <b>(b)</b>        | <b><i>Why was the question answered poorly? Also provide specific examples, indicate common errors committed by learners in this question, and any misconceptions.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                       |
|                   | Poor content knowledge on sewage and sewerage drawing layouts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>(c)</b>        | <b><i>Provide suggestions for improvement in relation to Teaching and Learning.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                   | More focused exercises on sewerage layout drawings and drawing symbols. Waste and soil water content knowledge must be developed in detail.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>(d)</b>        | <b><i>Describe any other specific observations relating to responses of learners and comments that are useful to teachers, subject advisors, teacher development etc.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                    |
|                   | <ul style="list-style-type: none"> <li>• Educators should use application of practical knowledge and skills to equip learners to be able answer questions in question one.</li> <li>• Working through past NSC exam papers.</li> <li>• To familiarized learners with the format and layout of certain questions and the responses to the questions.</li> <li>• Candidates need to do informal tests and set themselves benchmarks in order to perform better.</li> <li>• Candidates do not know how to structure a sentence to give a logical answer to the question.</li> </ul> |