



Province of the
EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING SELF-STUDY WORKSHEET

SUBJECT	AUTOMOTIVE	GRADE	12	DATE	APRIL 2020
TOPIC	MAINTENANCE	TERM 1 REVISION	()	TERM 2 CONTENT	(√)
TIME ALLOCATION	2 hrs.	<p style="text-align: center;"><u>TIPS TO KEEP HEALTHY</u></p> <ol style="list-style-type: none">1. WASH YOUR HANDS thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.2. PRACTICE SOCIAL DISTANCING – keep a distance of 1m away from other people.3. PRACTISE GOOD RESPIRATORY HYGIENE: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.4. TRY NOT TO TOUCH YOUR FACE. The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick.5. STAY AT HOME.			
INSTRUCTIONS					

QUESTION 1

A car exhaust gas was analysed and it was discovered that there was a high hydrocarbon reading.

- 1.1.1 State THREE possible causes that may be responsible for the high hydrocarbon reading.
- 1.1.2 Give THREE necessary measures that need to be taken to correct the faults.
- 1.1.3 Name TWO other gases that may be analysed during the process of exhaust gas analysing.

QUESTION 2

2.1 During the process of compression testing on a 4-cylinder SI engine, it was discovered that one of the cylinders had an unusual low reading. What will be the next step to verify if the cylinder is leaking or not?

2.2 Explain the procedure to follow when conducting a cylinder leakage test in an internal combustion engine.

2.3 State TWO possible faults, their possible causes and the corrective measures that needs to be taken to repair the possible faults when doing a cylinder leakage test.

2.4 Why must radiator cap pressure testing be done?