Province of the

EASTERN CAPE

EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING ASSESSMENT 23
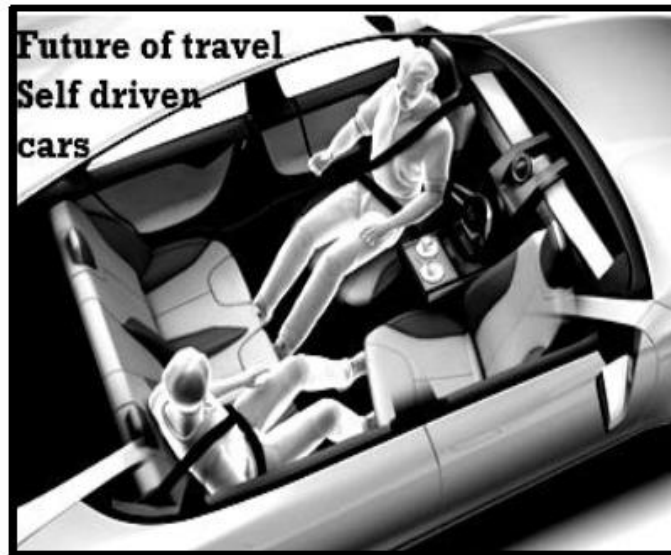
SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	28/8/20
TOPIC	Assessment 23: Integrated Scenario	TERM 2 REVISION		TERM 4 CONTENT	✓
TIME ALLOCATION	60 minutes (50 marks)	**TIPS TO KEEP HEALTHY**			
INSTRUCTIONS	1. You will need a book to write your answers in and something to write with. 2. Answer the following questions in your workbook in full sentences where applicable. 3. Do not refer back to your textbook while answering these questions.	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.**			

The school hosts an exhibition that will showcase a variety of topics and new technologies. A separate help desk will be available to assist with any queries.

1 Each exhibitor will be issued with a wrist band containing an RFID tag to allow the exhibitor access to the canteen for lunch.

Motivate the use of RFID tags instead of tickets with bar codes.   (2)

2 One of the exhibitors will do a presentation on the capabilities of intelligent self-driven vehicles.

2.1 State ONE essential intelligent task that the software designed for a self-driven vehicle should be able to perform.   (1)

2.2 Self-driven vehicles use GPS devices.

Name TWO other hardware devices that this type of vehicle should have in order to perform the intelligent tasks required.   (2)

2.3 It has been stated that there will be fewer accidents with self-driven vehicles as human error will be eliminated.
State ONE disadvantage of self-driven vehicles.   (1)

3 A cybercrime expert will compile a poster about computer crimes committed by means of ICT as a tool.

    3.1   Discuss TWO ways in which cybercrime can have a negative influence on a business. (2)

    3.2   Explain what a *denial-of-service attack* is. (2)

4 An environmental agency requested a stand to promote the responsible use of computers in the environment.

Suggest TWO ways in which the negative effects of computers on the environment can be minimised. (2)

5 There are several free Wi-Fi hotspots with limited data per day that the exhibitors can use.

    5.1   What is a public *Wi-Fi hotspot*? (2)

    5.2   Motivate the reason for limiting the data per day for the exhibitors of these Wi-Fi hotspots. (1)

6 The school has hired security consultants to advise on many security aspects to help protect exhibitors from computer theft.

    6.1   Name THREE items of personal information that should NOT be posted on a social networking site. (3)

    6.2   Name TWO types of computer criminals. (2)

7 All registration information for the exhibitors has been captured in a database table. Which field properties of the data types need be changed to:

    7.1   Limit the **First Name** field to 15 characters. (1)

    7.2   Set the status as "Finished" for all exhibitors. (1)

    7.3   Restrict input in the **Gender** field to "male" and "female" only. (1)

    7.4   Allow only two letters and two numbers to be used as the registration number. (1)

    7.5   Ensure that the **ExhibitorsID** field cannot be left blank. (1)

[25]