



Province of the
EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING ASSESSMENT 19

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	31/7/20
TOPIC	Assessment 19: Integrated Scenario	TERM 2 REVISION		TERM 4 CONTENT	✓
TIME ALLOCATION	60 minutes (50 marks)	<u>TIPS TO KEEP HEALTHY</u>			
INSTRUCTIONS	<ol style="list-style-type: none">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.	<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.			

SCENARIO

Mr Joseph has recently started a travel agency. He needs a technical assistant to help him and he has approached you due to your CAT skills. Help him understand how computer technology can make his business more efficient.

- 1 RFID tags and bar codes have a similar function.
 - 1.1 What medium does an RFID reader use to read an RFID tag? (1)
 - 1.2 What medium does a bar-code scanner use to read a bar code? (1)
- 2 What is the advantage of using a QR code in an advertisement? (1)
- 3 Mr Joseph spends a lot of time on social networking websites promoting his business.
 - 3.1 Give TWO examples of social networking websites. (2)
 - 3.2 State TWO advantages for the travel agency of advertising on a social networking website. (2)
 - 3.3 How can Mr Joseph ensure that the reputation of his business is not harmed if he makes use of social networking websites? (2)
- 4 You recommend that Mr Joseph buys a GPS device for the business.
 - 4.1 Give TWO reasons why one would prefer to use a GPS device rather than using a printed map. (2)
 - 4.2 State TWO advantages of using geotagging on a photograph. (2)
- 5 Mr Joseph has taken out a new cellular contract for the business.
 - 5.1 He has a choice between a smartphone and a phablet.
What is the main difference between a *smartphone* and a *phablet*? (1)
 - 5.2 The specifications indicate that both devices are LTE-ready.
Briefly explain what *LTE* is. Do NOT simply expand the abbreviation. (2)
 - 5.3 Give TWO reasons why Mr Joseph may have chosen to have the Android operating system on this device. (2)

- 5.4 Name TWO basic functions of operating systems such as Android or Microsoft Windows. (2)
- 5.5 The operating system on the phablet needs to be updated to the latest version.
Give ONE reason why Mr Joseph would prefer to use an ADSL connection rather than a cellular connection to download the update. (1)
- 6 Mr Joseph has stored a lot of confidential information on his laptop computer at work.
- .6.1 State TWO practical ways in which he can prevent his laptop computer from being stolen from his office. (2)
- .6.2 Give TWO examples of biometric features for secure access on a laptop computer. (2)
- 7 The operating system on Mr Joseph's laptop has a software bug.
What is a *software bug*? (1)
- 8 The laptop computer has a standard touch screen.
- .8.1 State TWO advantages of using a touch screen. (2)
- .8.2 What term is given to the action used on a multi-touch screen to make a photograph smaller? (1)
- 9 Mr Joseph did not install an office suite on his laptop.
- 9.1 What is an *office suite*? (1)
- 9.2 State TWO advantages of using an office suite. (2)
- 9.3 State ONE advantage of using an online spreadsheet application compared to one installed on Mr Joseph's laptop computer. (1)
- 9.4 Name TWO cases in which it would be more appropriate to use a database than a spreadsheet. (2)
- 10 Mr Joseph uses an electronic form to capture the details of his clients.
State TWO advantages of this approach instead of using pen and paper. (2)
- 11 A website for Mr Joseph's travel agency needs to be created.
State THREE guidelines that would make a website easy to use and read. (3)

- 12 Mr Joseph's laptop computer has crashed and it can no longer boot.
Give a possible reason why this has happened. (1)
- 13 Mr Joseph has been advised to store his data in the cloud.
State TWO advantages of using the cloud to store data. (2)
- 14 Mr Joseph has considered hiring a network administrator to manage the network for the travel agency.
Name THREE typical functions performed by a network administrator. (3)
- 15 Besides the social networking sites, Mr Joseph wants to use a blog for the agency.
Suggest TWO ways in which he can attract readers to the blog and maintain their interest in reading the blog in the future. (2)
- 16 Mr Joseph is worried about security on his computers.
- 16.1 Explain to Mr Joseph why a keylogger can be a very dangerous type of malware. (1)
- 16.2 State ONE function performed by most Internet security suites other than preventing virus infections. (1)

TOTAL: 50