



Province of the
EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING ASSESSMENT 13

SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	19/6/20
TOPIC	Assessment 13: Integrated Scenario	TERM 2 REVISION		TERM 4 CONTENT	✓
TIME ALLOCATION	1 HOUR (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.			

A school wishes to set up a computer network in their library for learners to do research for their projects. Ms Mabona, the CAT teacher, has agreed to help the librarian, Mr Joseph, with any questions concerning computers.

1 State ONE ergonomic consideration that should be taken into account when purchasing chairs for the learners to work on the computers. (1)

2 One of the programs Mr Joseph wants to buy for the library has the following minimum system requirements:

Dual core 1.8 GHz 2 GB RAM 5 GB hard drive space Windows 8 or 8.1 1024 x 768
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2.1 What does the term *minimum system requirements* mean in this context? (2)

2.2 Ms Mabona recommends that the school buy computers with higher specifications than the requirements above.

Give TWO reasons why this is good advice. (2)

2.3 To which device does the '1024 x 768' specification refer? (1)

2.4 Name TWO potential disadvantages of using a proprietary operating system such as Windows instead of an OSS (open source software) version. (2)

2.5 Mr Joseph wants to install the new program, but the hard drive on the computer currently does not have enough free space.

Name TWO possible ways in which he can free up disk space on the existing hard drive. (2)

2.6 Mr Joseph also has the option of using web-based applications.

Outline TWO possible reasons why web-based applications would NOT be a good solution for the school. (2)

3 Mr Joseph was advised to install a service pack for his office suite.

Give TWO advantages or benefits of installing a service pack. (2)

- 4 Mr Joseph would like to order a printer for the library for the learners to print their projects.
- 4.1 Give TWO advantages of having a card reader or spare USB port on a printer.
- NOTE:** This excludes connecting the printer to the USB port. (2)
- 4.2 Mr Joseph has received a spreadsheet with the details and prices of all printers that would work in his situation.
- What spreadsheet feature could he use to list only a specific type of printer? (1)
- 4.3 State TWO ways in which Mr Joseph can reduce the amount of paper used by learners. (2)
- 4.4 State TWO environmentally-friendly ways of managing empty ink cartridges. (2)
- 5 Mr Joseph has bought a scanner for the library.
- 5.1 After opening the box and unpacking the contents, he noted that this type of scanner does not have a CD with drivers.
- Where could the drivers for the scanner be found or obtained from, other than a shop? (1)
- 5.2 Explain what each of the following terms indicate regarding the scanner:
- (a) Colour depth
(b) dpi (2)
- 6 The computers in the library will be connected to the Internet.
- 6.1 Give TWO advantages of using the Internet for doing research instead of the books in the library. (2)
- 6.2 Name the class or type of software that should be used to prevent unauthorised access to the computers on the network from the Internet or from the computers to the Internet. (1)
- 6.3 Learners have used Wikipedia for their research.
- What is a *wiki*? (2)

- 7 Learners and staff members are encouraged to use cloud storage to save their work.
- 7.1 Name TWO potential advantages of using cloud storage instead of a flash drive to save data and information. (2)
- 7.2 Name ONE way in which staff members can ensure that their work is backed up to the cloud on a regular basis. (1)
- 8 A weekly art class will be streamed live over the Internet. Learners will be able to participate via a video conference.
- 8.1 Name ONE input device that should be installed on the computers for the video conference to take place. (1)
- 8.2 State TWO advantages in terms of teaching and learning of using video conferencing as outlined in this scenario. (2)
- 8.3 State the main advantage of streaming a video. (1)
- 8.4 Mr Joseph has to choose between using a large computer screen and a data projector for the video conference.
- Give TWO reasons why using a large computer screen might be preferable in this context. (2)
- 9 Ms Mabona has recommended that the server be placed in a room with biometric access control.
- 9.1 Why should the server be kept in such a room? (1)
- 9.2 Give TWO limitations that Mr Joseph should be aware of regarding biometric fingerprint security, besides any cost-related issues. (2)
- 10 Give TWO reasons for using a database instead of a spreadsheet to record information about all the books in the library. (2)

- 11 Mr Joseph created a database to enter the information of all the books.
- 11.1 The *Cost* field, which will store and display the replacement cost of each book in 'Rand' format (1)
 - 11.2 The *ISBN* field, which will contain the ISBN number of each book, for example 918-6-619-42299-5 (1)
 - 11.3 The *Overview* field, which will contain a summary of 500 to 1 000 words describing each book's contents (1)
 - 11.4 The *Cover* field, which will store a picture of the outside cover of each book within the field itself (1)
- 12 Mr Joseph has a database with records of all the people who have contributed to the project. He would like to create a report of the top 10 donors in terms of the total amounts they have donated to the project.
- Broadly describe the steps he should follow to create this report in the database. (3)

TOTAL: 50