Dear Parents / Students

Due to the unprecedented situation, Knowledgeplus Training center is mobilized and will keep accompanying and supporting our students through this difficult time.

Our Staff will be continuously, sending notes and exercises on a weekly basis through what's app and emails. Students are requested to copy the notes and do the exercises on their copybooks.

The answers to the questions below will be made available on our website on knowledgeplus.mu/support.php

Please note that these are extra work and notes that we are providing our students and **all classes** will be replaced during the winter vacation.

We thank you for your trust and are convinced that, together, we will overcome these troubled times

Grade 10 & 11 – Computer Science

Capacitive vs resistive touchscreens

What is a resistive touchscreen?

Resistive touchscreens work on the basis of pressure applied to the screen. A resistive screen consists of a number of layers. When the screen is pressed, the outer later is pushed onto the next layer — the technology senses that pressure is being applied and registers input. Resistive touchscreens are versatile as they can be operated with a finger, a fingernail, a stylus or any other object.

What is a capacitive touchscreen?

Capacitive touchscreens work by sensing the conductive properties of an object, usually the skin on your fingertip. A capacitive screen on a mobile phone or smartphone usually has a glass face and doesn't rely on pressure. This makes it more responsive than a resistive screen when it comes to gestures such as swiping and pinching. Capacitive touchscreens can only be touched with a finger, and will not respond to touches with a regular stylus, gloves or most other objects.

Though resistive touchscreens are often quite responsive — especially in many new smartphones hitting the market — capacitive touchscreens usually provide a more pleasant user experience. Actions like swiping through contact lists, zooming in and out of Web pages and maps, typing emails and text messages and scrolling through photos are best suited to capacitive touchscreens; unlike resistive screens, you can swipe across them gently and still get a response. Resistive screens are often found in cheaper devices, as they cost significantly less to manufacture.

Questions

Question 1

Computer memory size is measured in multiples of bytes.

Four statements about computer memory sizes are given in the table.

Tick (✓) to show if the statement is True or False.

Statement	True (✓)	False (√)
25 kB is larger than 100 MB		
999 MB is larger than 50 GB		
3500 kB is smaller than 2 GB		
2350 bytes is smaller than 2 kB		

Question 2

Touch screen technologies can be described as resistive or capacitive.

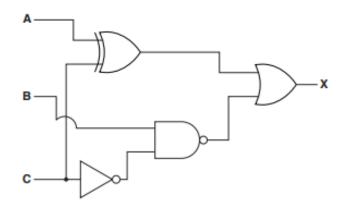
Six statements are given about resistive and capacitive technology.

Tick (✓) to show if the statement applies to Resistive or Capacitive technology.

Statement	Resistive (√)	Capacitive (✓)
This touch screen has multi-touch capabilities		
This touch screen cannot be used whilst wearing gloves		
This touch screen is made up of two layers with a small space in between		
This touch screen uses the electrical properties of the human body		
This touch screen is normally cheaper to manufacture		
This touch screen has a quicker response time		

Question 3

Consider the logic circuit:



(a) Write a logic statement to match the given logic circuit.

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(b) Complete the truth table for the given logic circuit.

A	В	С	Working space	x
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		