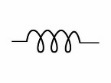
Course 144 – final exam

Full name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For True & False circle the correct answer

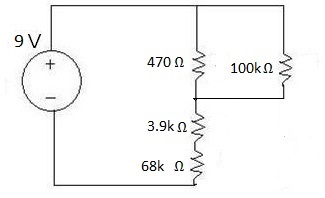
1. The height of a sine wave, from the lowest point to the highest point, is called the amplitude True False
2. A short circuit has no resistance True False
3. An open circuit has infinitely high resistance True False
4. AC means current stops, changes direction, goes back to zero, and then goes the other direction True False
5. A wave’s frequency is equal to the inverse (1/T) of its period True False
6. An oscillation is something that goes back and forth, repeating itself True False
7. A wave can look like any shape, as long as that shape repeats True False
8. 10m is smaller than 10µ True False
9. A wave’s cycle (period) is from the signal’s high point (top) to the signal’s lowest point (bottom) True False
10. Electronic stuff in parallel with other electronic stuff will have the same voltage across them True False
11. A wave’s period (T) is the time it takes for an oscillation to complete one cycle True False
12. The following is a symbol for what electronic component: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. The following is a symbol for what electronic component: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14.  The following is a symbol for what electronic component: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15.  This symbol, used in electronics, represents a: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
16. A diode allows current to flow in one direction, but not in the otherTrue False
17. An inductor is an electronic componentTrue False
18. Is the breadboard circuit at bench A wired correctly for the LED to light up? Y or N

If not, indicate why it would not light up (support your answer in detail)

1. Is the breadboard circuit at bench B wired correctly for the LED to light up? Y or N

If not, indicate why it would not light up (support your answer in detail)

1. Using the parts provided, build the following circuit on the breadboard



1. With the tools provided, demonstrate to the instructor your ability to select the correct tool to measure the outside dimension of the object you were given.
2. Record the measured value
3. With the tools provided, demonstrate to the instructor your ability to select the correct tool to measure the inside dimension of the object you were given.
4. Record the measured value
5. Compare your measured values against the engineering drawing and explain to the instructor if your object meets the specifications in the engineering drawing or is outside of acceptable limits.