

Grade: third year students

Specialty: electrical engineering

Module: English

First exam

A circuit is a closed path that electrons flow along to provide power to your home and electronics. A simple electric circuit contains a power source (battery), wires, and a resistor (light bulb). In a circuit, electrons flow from the battery, through the wires, and into the light bulb. When the bulb receives enough of these electrons it will light up. When constructed properly, you will be able to light your bulb with just a few simple steps.

In order to complete the circuit, all wires must be touching the metal parts of each component. If your bulb doesn't light up, check each side of the battery and the screws on the bulb holder to make sure the wires are in contact with metal. Check the filament in your light bulb. Your bulb will not light if the filament is broken. Hold the bulb up to the light and ensure the filament is one connected piece. Try replacing the bulb with a new one. If the bulb isn't the problem, proceed to the next troubleshooting step. Test the charge of the battery. If the battery is dead or low on charge, it might not have enough power to light the bulb. Using a battery tester, check the charge or just replace the battery with a new one. If this was the problem, your bulb should light immediately after replacing the battery.

Questions:

Part one:

1/ the text is about :(1pt)

A/how to install a switch

b/ how to install a circuit

c/ troubleshooting your circuit

2/ say whether the following statements are true or false: (4pts)

a/ electrons flux from the battery, through the wires, and into the light bulb.

b/ it is a compulsory thing to check the battery before putting it in use.

c/ we must troubleshooting things before put them in work.

d/ even if the filament is shattered, the bulb still turns on.

3/ answer the following questions according to the text: (3pts)

a/ what does a simple electric circuit contain?

b/ how do we check if the filament bulb is broken ?

c/ when does the bulb light up?

4/ match the following tools with their own functions: (2pts)

tools	functions
1/ stubby screwdriver	a/ is used for removing insulation of medium sizes.
2/ wire stripper	b/ is used in making holes.
3/ electric drill	c/ is used to turn screws in tight space.
4/ tape measure	d/ is used to measure distance and size.

Part two:

1/ complete the following sentences: (2pts)

a/ I found a stray cat this evening.

b/ a.....

b/ students are preparing their projects for next week.

b/ Their.....

2/ rewrite the following sentences using the right connector :(2pts) (because- neither...nor- while- when) (Make the necessary changes)

1/ illiterate people can't read. They can't write.

2/ their new products didn't sell well. They are poor quality.

Part three: (6pts)

1/ arrange the following steps in order to build a simple circuit with a battery:

a/ Fasten (connect) the other ends of the wires to the metal screw of the bulb holder.

b/ strip each ends of the insulators wires.

c/ To build a simple circuit, you will need a power source (1 battery), 2 copper wires, a light bulb, a light bulb holder.

d/ attach your wires to the battery

e/ screw the bulb into a bulb holder.

f/ the light bulb lights up immediately.

2/ after arranging these steps, form a well-organized paragraph using the information above.

1/ (Use sequencers such as: first.....etc)

2/ (use your own words in order to develop your paragraph)

Best of luck

Correction of the first English exam
(3 year students electrical engineering)

Part one:

1/ the text is about troubleshooting your circuit (1pt)

2/ true or false (4pts)

a/ true b/ true c/ true d/ false

3/ answer the questions from the text (3pts)

a/ a simple electric contains a power source, wires, and a resistor.

b/ hold the bulb up to the light and ensure the filament is one piece.

c/ when the bulb receives enough of these electrons it will light up.

4/ matching the words (2pts)

Stubby screwdriver → c wire stripper → a electric drill → b tape measure → d

Part two:

1/ active and passive voice (2pts)

a/ a stray cat was found by me this evening.

b/ their projects are being prepared by students for next week.

2/ link the sentences by using the right connector (2pts)

1/ illiterate people can neither read nor write.

2/ their new products didn't sell well because they are poor quality.

Part three:

1/ ordering the steps (6pts)

a → 5 b → 2 c → 1 d → 3 e → 4 f → 6

2/ form a well-organized paragraph by using the previous ordered steps.

1/ the correct order of the steps

2/ the use of the right tenses

3/ no spelling errors