

**Test / Exam Name:** Electricity And Circuits      **Standard:** 6th      **Subject:** Science  
**Student Name:** .....      **Section:** .....      **Roll No.:** .....  
**Questions:** 18      **Time:** 01:00 hh:mm      **Marks:** 30

**Instructions**

1. New Section on new page
2. Make sure to write in good handwriting
3. Read the questions properly.

**SECTION-A**

Q1. Which one of the following is the correct grouping of different materials according to their electrical conductivity?      **1 Mark**

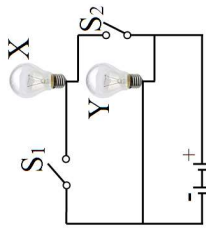
<b>A</b>	Electrical Insulators Plastic/wood	Electrical Conductors Mercury, tungsten
<b>B</b>	Electrical Insulators Carbon, steel	Electrical Conductors Iron, paper

<b>C</b>	Electrical Insulators Copper, gold	Electrical Conductors Nickel, clay
<b>D</b>	Electrical Insulators Iron, rubber	Electrical Conductors Silver, plastic

Q2. \_\_\_\_\_ is a piece of iron placed across the poles of a magnet to preserve the strength of the magnet.      **1 Mark**

- A** Preserver.      **B** Keeper.      **C** Solder.      **D** Compass.  
**E** None of these.

Q3. In the given diagram, there are two switches  $S_1$  and  $S_2$  and two bulbs X and Y. If switch  $S_1$  is closed and switch  $S_2$  is open then:      **1 Mark**



- A** Only bulb X will glow.      **B** Only bulb Y will glow.  
**C** Both bulbs X and Y will glow.      **D** Neither bulb X nor bulb Y will glow.  
**Q4.** A cell, a conducting wire and a bulb are used for constructing a simple electric circuit. What are they called?      **1 Mark**  
**A** Consumers.      **B** Connectors.      **C** Components.      **D** Sources.  
**Q5.** Which of the following does NOT belong to the group formed by the others?      **1 Mark**  
**A** Iron.      **B** Tin.      **C** Glass.      **D** Steel.      **4 Marks**

**Q6.** Match the following:      **4 Marks**

S.No.	Column A	S.No.	Column B
(1)	Circuit	(a)	Electrolyte
(2)	Switch	(b)	Path of current
(3)	Bulb	(c)	Break the circuit
(4)	Electric cell	(d)	Filament

**Q7. Assertion (A):** In a closed electric circuit the current passes from one terminal of the electric cell to the other terminal.      **1 Mark**

**Reason (R):** Generally, the metal disc of a cell acts as positive terminal.

- A** Both A and R are true and R is the correct explanation of A.      **B** Both A and R are true but R is not the correct explanation of A.  
**C** A is true but R is false.      **D** A is false but R is true.

**Q8.** Circuit shows the path of current. True/ False.      **1 Mark**

**Q9.** An electric cell produce electricity from chemical stored in it. True/ False.      **1 Mark**

**Q10.** A switch is made of an insulator. True/ False      **1 Mark**

**Q11.** Electricians must wear \_\_\_\_\_ gloves while repairing electric switch.      **1 Mark**

**Q12.** The thin coiled wire that gives off light is called \_\_\_\_\_ of the bulb.      **1 Mark**

**SECTION-B**

**Q13.** What is the purpose of using an electric switch? Name some electrical gadgets that have switches built into them.      **2 Marks**

Q14. What is power station? What are its types?      **2 Marks**

Q15. A fused bulb does not glow. Why?      **2 Marks**

Q16. Fig. shows a bulb with its different parts marked as 1, 2, 3, 4 and 5. Which of them label the terminals of the bulb?      **2 Marks**



**SECTION-C**

Q17. Boojho has a cell and a single piece of connecting wire. Without cutting the wire in two, will he be able to make the bulb glow? Explain with the help of a circuit diagram.      **3 Marks**

Q18. Match the following items given in Column A with that in Column B:      **4 Marks**

S.No.	Column A	S.No.	Column B
(a)	Cell	(i)	Allows electricity to pass through it.
(b)	Battery	(ii)	Either breaks or completes a circuit.
(c)	Conductor	(iii)	Converts electricity into light.
(d)	Insulator	(iv)	Glow when electricity passes in it.
(e)	Switch	(v)	A device which produces electricity.
(f)	Bulb	(vi)	Is a path of electricity.
(g)	Filament	(vii)	Does not allow electricity to pass.
(h)	Circuit	(viii)	A combination of cells.