

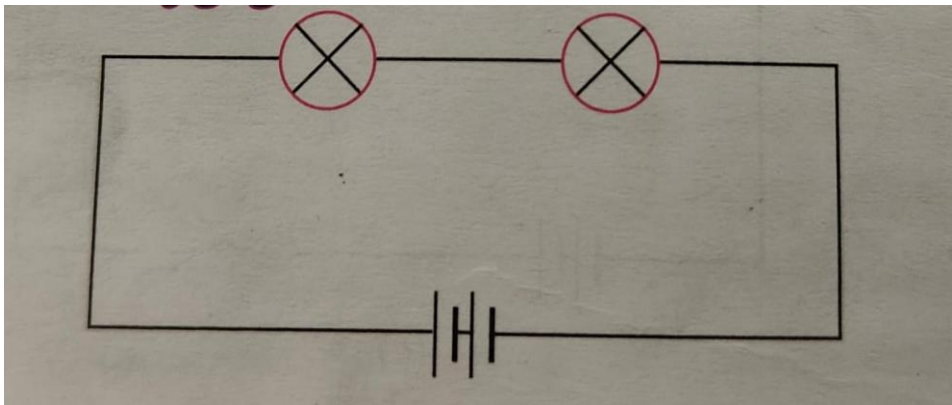
KENDRIYA VIDYALAYA SANGATHAN-MUMBAI REGION	
HALF YEARLY EXAMINATION 2025-26	
CLASS: VII	
SUBJECT: SCIENCE (086)	
SAMPLE PAPER	
Time: 02.30 Hours	Max Marks: 60

General Instructions:

1. The question paper comprises five sections A, B, C, D and E. There are 27 questions in the question paper. All questions are compulsory. However, Internal choice have been provided in some questions.
2. Section A consists of 10 MCQ questions of 1 mark each.
3. Section B consists of 7 Very Short Answer type questions of 2 marks each.
4. Section C consists of 6 Short Answer type questions of 3 marks each.
5. Section D consists of 2 Long Answer type questions of 5 marks each.
6. Section E consists of 2 Case Based questions of 4 marks each.

S. NO	SECTION A (1X10=10)	MARKS
1	Battery is the a) combination of two or more cells. b) device used to close or open the circuit. c) a device used to measure current in the circuit d) none of the above	1
2	Which of the non-metal used by organisms for respiration? a) Carbon b) Nitrogen c) Hydrogen d) Oxygen	1
3	A solution turns the red litmus paper to blue. Excess addition of which of the following solution would reverse the change? a) Lime water b) Vinegar c) salt solution d) Baking soda	1
4	Which of the following are physical changes? (i) Melting of ice. (ii) Rusting of iron (iii) Cutting of wood into pieces. (iv) Ripening of fruits. (a) (i) and (ii) (b) (ii) and (iii) (c) (i) and (iii) (d) (iii) and (iv)	1
5	Which of the following is the secondary sexual character in boys? (a) Increase in height (b) Pimples on the face	1

	(c) growth of Facial hair (d) None of the above	
6	Which of the following metal catches fire when it comes in contact with water? a) Sodium b) Copper c) Aluminium d) Zinc	1
7	What is the structure in the throat of adolescent boys that grows and causes a hoarse voice? a) Adam's Apple b) Vocal cords c) Thyroid glands d) Lungs	1
8	When lemon juice is added to baking soda solution, carbon dioxide gas is produced which is allowed to pass in lime water. The observation is a) lime water turns milky b) no change in lime water c) lime water turns green d) lime water turns yellow	1
9	The changes that cannot be reversed are called: a) Chemical change b) Physical change c) Both A and B d)None of these	1
10	Which of the following is the natural indicator? a) Phenolphthalein b) Litmus c) Methyl orange d) Vinegar	1
	SECTION B (2X7=14)	
11	Why does an electrician use rubber gloves while repairing electric devices?	2
12	What are Olfactory Indicators? Give one example.	2 (1+1)
13	List down two properties of metals in our everyday life.	2
14	What are hormones? Give one example.	2
15	What is meant by substance abuse?	2
16	Why copper wires are used in electric transmission wires?	2
17	Write down any two differences between acids and bases.	2
	SECTION C	
18	What is Neutralisation reaction? Give one example from daily life that involve neutralisation?	3
19	a) Name the property of metal i) By which it can be drawn into thin wires.	3(1+1+1)

	ii) By which it can be beaten into thin sheets. b) Name a metal which is found in liquid state room temperature.	
20	State whether following are true and false. 1. Melting of wax is a physical as well as chemical change. 2. Composting of organic waste is a physical change. 3. Dissolving sugar in water cannot be reversed.	3(1+1+1)
21	What is cyber bullying? Suggest precautionary measures taken by adolescence to protect themselves from cyber bullying.	3(1+2)
22	What is menstrual cycle? Suggest two ways to maintain menstrual hygiene.	3
23	a) In the figure given below, if the filament of one of the lamps is broken, will the other glow? Justify your answer.  b) Do LED lamps have filaments?	2+1
	SECTION D (5X2=10)	
24	a) What are the conditions responsible for rusting of iron? b) Suggest 3 ways to prevent rusting of iron.	5(2+3)
25	Name the acid/ base present in the following: a) Ant's sting b) Soap c) Tomato d) Lemon e) Milk	5(3+2)
	SECTION E (4X2=8)	
26	Students of your school went for a camp and gathered wood to light a fire for cooking. They tried to light the wood with a matchstick, but it did not catch fire. Someone suggested using kerosene, but none was available. Another suggested lighting dry leaves first, but there were no dry leaves. Finally, a student used petroleum jelly (Vaseline) smeared on cloth to light the fire.	4 (1+1+2)

	- Why could the wood not be set on fire by the matchstick? (a) wood could not be heated enough (b) wood is a bad fuel (c) wood is not dry enough (d) wood does not get enough oxygen - Use of dry leaves was suggested because (a) it produces a large fire as it contains a lot of carbon (b) it produces smoke as it contains a lot of oxygen (c) dry leaves act as a fire starter as they have low ignition temperature (d) dry leaves are better fuel as compared to wood 3. Which two properties of petroleum jelly were used to light the fire? Flammable and low ignition temperature	
27	- What changes can be made to make the bulb glow in the above circuit? - What is the position of switch On/OFF in the above circuit? - Draw a symbol to represent the following combination. Fig. 14.12	4 (1+1+1+1)

	4. What is the purpose of electric switch?	
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