

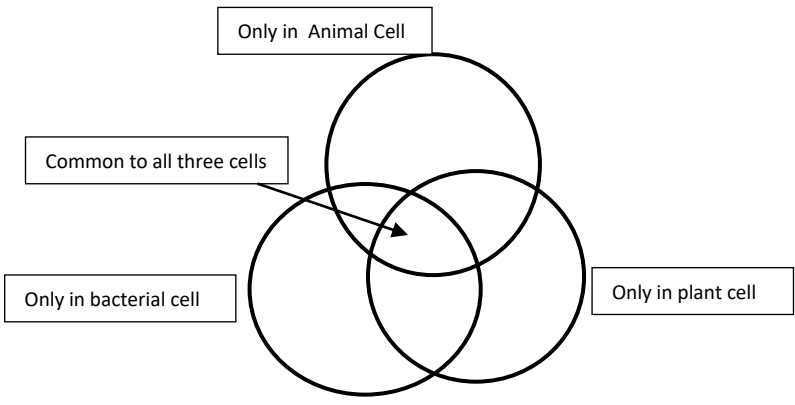
KENDRIYA VIDYALAYA SANGATHAN-MUMBAI REGION	
HALF YEARLY EXAMINATION 2025-26	
CLASS: VIII	
SUBJECT: SCIENCE (086)	
SAMPLE PAPER	
Time: 02:30 Hours	Max Marks: 60

General Instructions:

1. The question paper comprises five sections A, B, C, D and E. There are 28 questions in the question paper. All questions are compulsory. However, Internal choice have been provided in some questions.
2. Section A consists of 9 MCQ and 3 Assertion & Reason questions of 1 mark each.
3. Section B consists of 6 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 Case based questions of 4 marks each.
6. Section E consists of 2 Long Ans questions of 5 marks each

SECTION A (1x12=12)			
Q.NO		QUESTION	MARKS
1.		What force causes a ball thrown up to fall back down?	1
		a. Friction b. Air Resistance c. Magnetism d. Gravity	
2.		What helps scientists predict cyclones and severe storms?	1
		a. Studying moon phases b. Changes in soil type c. Observation of air pressure and wind patterns d. Cloud colors	
3.		What type of microorganism is yeast ?	1
		a. Algae b. Protozoa c. Bacteria d. Fungi	
4.		Which activity can help prevent dengue?	1
		a. Eating junk food b. Removing standing water c. Increased screen time d. Skipping Meals	
5.		Force exerted during digestion of food	1
		a. Force of gravity b. Pressure c. Muscular Force d. Longitudinal force	
6.		In a dry cell the positive terminal is the metallic tip on top of the carbon rod. Which then is the negative terminal of the cell?	1
		a. Bottom of the Carbon rod b. The paste of chemicals inside the cell c. Bottom of Zinc Container d. Carbon Rod just below the metallic tip	

7.		Which of the following is NOT a drawback of heating effects of electric current?		1
		a. Loss of electric energy during transmission b. Heating of water with an immersion rod	c. Fires due to electric short circuits d. Melting of plastic sockets and plugs due to over heating	
8.		What is the starting point of scientific investigation?		1
		a. Memorization b. Observation	c. Wonder and Curiosity d. Drawing conclusions	
9.		How does Spirulina support environmental sustainability?		1
		a.Fixes nitrogen in roots b.Produces Alcohol	c.Produces oxygen and grows in less space d.Breaks down waste in landfills	
		<u>ASSERTION & REASON QUESTIONS</u> Select the correct answer to these questions from the codes- a)Both A and R are true, and R is correct explanation of the assertion. b)Both A and R are true, but R is not the correct explanation of the assertion. c)A is true, but R is false. d)A is false, but R is true		
10.		Assertion (A): Magnitude is the strength of force. Reason (R): Newton is the unit of force		1
11.		Assertion (A): Fungal growth is faster in moist and warm conditions. Reason (R): Moist and warm conditions support faster fungal growth.		1
12.		Assertion (A): Stress can negatively affect both mental and physical health. Reason (R): Long-term stress may weaken the immune system and increase the risk of diseases.		1
		SECTION B (2x6=12)		
13.		Why are solids hard to compress, while gases can be compressed easily?		2
14.		Write two difference between viruses and bacteria.		2
15.		How lifestyle changes can prevent non-communicable diseases like diabetes and obesity.		2
16.		What is the WHO definition of health?		2
17.		Why are copper wires used for electrical wiring?		2
18.		What can be the result of a force applied on an object?		2
		SECTION C (3x6=18)		
19.		When you drop a coin in a glass of water, it sinks. But when you place a wooden block in water, it floats.how?		3
20.		How do human activities affect the Earth's natural balance, and how can environmental awareness help in tracking climate change?		3

21.		Various parts of the cell are given below. Write them in the appropriate place in the following diagram: nucleus, cytoplasm, chloroplast, cell wall, cell membrane, nucleoid  OR Write two harmful effects of fungi.	3
22.		Explain how stress can affect your health.	3
23.		How is a dry cell more convenient to use than the voltaic cell? Give reasons.	3
24.		State three safety measures while using electricity at home.	3
		SECTION D (4x2=8)	
25.		A new water-borne disease has been reported in your town after heavy rains. Many people are suffering from diarrhoea and dehydration. The municipal corporation has warned citizens to drink only boiled or filtered water.	
		1. Which microorganism is most likely responsible for this disease? a) Virus b) Bacteria c) Fungi d) Algae	1
		2. What simple household method can make water safe for drinking? a) Filtering through cloth b) Boiling water c) Keeping water uncovered d) Adding raw rice	1
		3. Name one disease (other than diarrhoea) that can spread through contaminated water. a) Malaria b) Typhoid c) Dengue d) Tuberculosis	1
		4. Which preventive step should the local authorities immediately take? a) Spray pesticides b) Repair leaking pipelines c) Increase electricity supply d) Plant more trees	1

26.		In a house, many appliances like TV, refrigerator, fan, and lights are connected in parallel. One day, a short circuit occurred due to faulty wiring. Immediately, the fuse melted and cut off the supply. The electrician explained that the short circuit happened because the live wire and neutral wire came into direct contact, allowing a large current to flow. He also emphasized the role of earthing, circuit breakers, and fuses in ensuring safety.	
		1. A short circuit occurs when— a) Switch is left open b) Live and neutral wires touch each other c) Current flows normally d) Resistance of circuit increases	1
		2. Which safety device is used nowadays in place of fuses in houses? a) Switch b) Transformer c) MCB d) Ammeter	1
		3. The role of earthing in electric supply is— a) To save electricity b) To increase resistance c) To prevent electric shocks d) To reduce voltage	1
		4. Which effect of electric current is mainly responsible for a short circuit? a) Magnetic effect b) Light effect c) Chemical effect d) Heating effect	1
		SECTION E (5x2=10)	
27.		(a) Compare gravitational, magnetic, and electrostatic forces. (b) What will be the net force when two forces act in same direction?	(3+2)
28.		A farmer avoids using chemical fertilizers and instead grows legume crops repeatedly. What long-term benefit and risk might this have on soil health and crop yield? Explain	5