

**KENDRIYA VIDYALAYA SANGATHAN MUMBAI REGION
HALF-YEARLY EXAMINATION 2025-26**

SAMPLE PAPER

CLASS: VIII
TIME: 2:30 Hours

SUBJECT: SCIENCE
MM: 60 MARKS

MARKING SCHEME

Q.NO.	SECTION A	MM
1.	d. Gravity	1
2.	c.Observation of air pressure and wind patterns	1
3.	d. Fungi	1
4.	b. Removing Standing water	1
5.	c. Muscular Force	1
6.	c.Bottom of Zinc Container	1
7.	b Heating of water with an immersion rod	1
8.	c. Wonder and curiosity	1
9.	c.Produces oxygen and grows in less space	1
10.	b)Both A and R are true, but R is not the correct explanation of the assertion	1
11.	a)Both A and R are true, and R is correct explanation of the assertion	1
12.	a)Both A and R are true, and R is correct explanation of the assertion	1
	SECTION B	
13.	In solids, particles are tightly packed with very little space between them, so they cannot be compressed.In gases, particles are far apart with large spaces, so they can be compressed easily.	2
14.	Viruses are acellular and can only reproduce inside a host cell, while bacteria are cellular and can reproduce independently	2
15.	Avoid smoking and alcohol,balanced diet, avoid junk food and excess sugar,Exercise regularly,Get enough sleep,Reduce stress	2
16.	Health is a state of complete physical, mental, and social well-being and not merely the absence of disease .	2
17.	Copper is a good conductor of electricity and allows easy flow of current	2

18.	It can change the state of motion of the object. It can change the shape of the object. /Any relevant answer	2
SECTION C		
19.	Coin is denser than water → gravitational force > upthrust → sinks. Wooden block is less dense than water. Buoyant force ≥ weight → floats	3
20.	Human activities: deforestation, pollution, burning fossil fuels disturb natural balance. Cause global warming, loss of biodiversity, climate change. Environmental awareness promotes conservation, renewable energy, reducing emissions.	3
21.	Common to all three cells: Cell membrane, Cytoplasm Plant + Animal (not bacteria): Nucleus Only in Plant: Chloroplast, Cell wall Only in Bacteria: Nucleoid OR Fungi cause diseases in humans, such as ringworm and athlete's foot. Fungi spoil food and other materials by growing on them, e.g., bread mould.	3(0.5 x6) 3
22.	Weakens immune system → more prone to illness. Causes high blood pressure/heart problems. Leads to anxiety, depression, disturbed sleep	3
23.	Compact and portable. No liquid leakage (sealed). Can be used in any position safely.	3
24.	Do not touch electrical appliances with wet hands. Do not overload sockets. Use proper insulation/earthing for all wiring	3
SECTION D		
25.	1.b) Bacteria 2.b) Boiling water 3. b) Typhoid 4.b) Repair leaking pipelines	4
26.	1.c) Live and neutral wires touch each other 2. b) MCB 3.b) To prevent electric shocks 4.d) Heating effect	4(1+1 +1+1)
SECTION E		
27.	(a) Gravitational → attractive only, acts between masses Magnetic → acts between magnets, attractive or repulsive. Electrostatic → acts between charges, attractive or repulsive. (b) Net force = sum of both forces.	3+2
28.	Benefits: Nitrogen fixation by Rhizobium → soil fertility improves. Reduces chemical fertilizer use → eco-friendly, cost saving. Improves soil organic matter, microbial diversity Risks: Growing only legumes may reduce soil nutrients diversity.	3+2

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