

SET 5-VIII-SCIENCE

S.N	Folder Number & Question Code	Topic/Chapter	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)				
1.	3_17 Science 1870	Chapter 4 Materials: Metals and Non-Metals	Which of these molecules is composed of EXACTLY 5 atoms?		B				
						Answer Options			
						Option A	Option B	Option C	Option D
						NaHCO ₃	Ba(OH) ₂	K ₂ SO ₄	N ₂ O ₅
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2.	3_17 Science 1886	Chapter 4 Materials: Metals and Non-Metals	Hydrated copper sulphate is a blue crystalline solid. When heated, it changes to anhydrous copper sulphate, a white powder. Which of these occurs in that process?		A				
						Answer Options			
						Option A	Option B	Option C	Option D
						Loss of water	Absorption of water	Loss of oxygen	Oxidation

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3.	4_23 Science 9091	Chapter 4 Materials: Metals and Non-Metals	If you took all of the atoms out of a chair, what would be left?		C			
					Answer Options			
					Option A	Option B	Option C	Option D
			The chair would still be there, but it would weigh less.	The chair would be exactly the same as before.	There would be nothing left of the chair.	A pool of liquid would be left in place of the chair.		
4.	4_23 Science 9100	Chapter 4 Materials: Metals and Non-Metals	The percentages given in the chart represent the number of atoms of each element in a compound. The chart correctly represents the atoms in which of these compounds?	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td style="text-align: center;">H</td></tr> <tr><td style="text-align: center;">O</td></tr> <tr><td style="text-align: center;">C</td></tr> </table> <p style="text-align: center;">H- 50%, O- 25%, C- 25%</p>	H	O	C	B
					H			
					O			
C								
Answer Options								
Option A	Option B	Option C	Option D					
C ₂ H ₅ OH	CH ₃ COOH	C ₂ H ₅ COOH	C ₃ H ₆					

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5.	4_23 Science 9114	Chapter 4 Materials: Metals and Non-Metals	The 'Flame Test' is used in the identification of certain metals. It is based on the observation that light emitted by any element gives a unique spectrum when passed through a spectroscope. When a salt of the metal is introduced into a Bunsen burner flame, the metallic ion produces characteristic colour in the flame. Some metals and the colours they produce are: In a flame test, if a distinct blue green colour is observed which of the following chemicals could it be?	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Metal</th> <th style="width: 50%;">Colour</th> </tr> </thead> <tbody> <tr> <td>Barium</td> <td>yellow-green</td> </tr> <tr> <td>Calcium</td> <td>red-orange</td> </tr> <tr> <td>Copper salts (except halides)</td> <td>emerald green</td> </tr> <tr> <td>Copper halides or other copper salts moistened with hydrochloric acid</td> <td>blue-green</td> </tr> <tr> <td>Lithium</td> <td>crimson</td> </tr> <tr> <td>Potassium</td> <td>violet</td> </tr> <tr> <td>Sodium</td> <td>yellow</td> </tr> <tr> <td>Strontium</td> <td>scarlet</td> </tr> </tbody> </table>	Metal	Colour	Barium	yellow-green	Calcium	red-orange	Copper salts (except halides)	emerald green	Copper halides or other copper salts moistened with hydrochloric acid	blue-green	Lithium	crimson	Potassium	violet	Sodium	yellow	Strontium	scarlet	B
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			flames. What would be the best filter to use in order to block the colour of sodium flame?														
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7.	4_24 Science 10312	Chapter 4 Materials: Metals and Non-Metals	Which of the following would be a chemical change?		B												
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8.	4_24	Chapter 4	Which of the following														

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	Science 10328	Materials: Metals and Non-Metals	represents a correct chemical reaction?		B																																				
Answer Options																																									
Option A		Option B		Option C																																					
Sodium + Hydrogen -----> Sodium hydroxide		Sulphur trioxide + Water ----> Sulphuric acid		Carbon + Chlorine -- --> Potassium chloride																																					
				Nitrogen + Oxygen -----> Hydrogen peroxide																																					
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9.	4_24 Science 10337	Chapter 4 Materials: Metals and Non-Metals	Which of the following minerals would give a fizz with dilute hydrochloric acid?	Use the information given in the table belowand answer the question. <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Mineral</th> <th style="text-align: center;">Cleaves</th> <th style="text-align: center;">Hardness</th> <th style="text-align: center;">Formula</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Chalcopyrite</td> <td style="text-align: center;">No</td> <td style="text-align: center;">3.5</td> <td style="text-align: center;">CuFeS₂</td> </tr> <tr> <td style="text-align: center;">Galena</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">2.5</td> <td style="text-align: center;">PbS</td> </tr> <tr> <td style="text-align: center;">Magnetite</td> <td style="text-align: center;">No</td> <td style="text-align: center;">6.0</td> <td style="text-align: center;">Fe₃O₄</td> </tr> <tr> <td style="text-align: center;">Fluorite</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">4</td> <td style="text-align: center;">CaF₂</td> </tr> <tr> <td style="text-align: center;">Stibnite</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">2</td> <td style="text-align: center;">Sb₂S₃</td> </tr> <tr> <td style="text-align: center;">Calcite</td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">3</td> <td style="text-align: center;">CaCO₃</td> </tr> <tr> <td style="text-align: center;">Quartz</td> <td style="text-align: center;">No</td> <td style="text-align: center;">7</td> <td style="text-align: center;">SiO₂</td> </tr> <tr> <td style="text-align: center;">Apatite</td> <td style="text-align: center;">No</td> <td style="text-align: center;">5</td> <td style="text-align: center;">Ca₃(PO₄)₂</td> </tr> </tbody> </table>	Mineral	Cleaves	Hardness	Formula	Chalcopyrite	No	3.5	CuFeS ₂	Galena	Yes	2.5	PbS	Magnetite	No	6.0	Fe ₃ O ₄	Fluorite	Yes	4	CaF ₂	Stibnite	Yes	2	Sb ₂ S ₃	Calcite	Yes	3	CaCO ₃	Quartz	No	7	SiO ₂	Apatite	No	5	Ca ₃ (PO ₄) ₂	D
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	3592	Metals and Non-Metals	change?		
Answer Options					
Option A		Option B		Option C	
Co		CO		Cr	
Cu					
12.	3_17 Science 1876	Chapter 4 Materials: Metals and Non-Metals	The graph below represents the uniform cooling of a substance, starting with the substance as a gas above its boiling point. During which interval is the substance completely in the liquid phase?		C
Answer Options					
Option A		Option B		Option C	
PQ		QR		RS	
ST					
13.	4_25 Science 11986	Chapter 4 Materials: Metals and Non-Metals	Inside an atom, which of these occupies the MAXIMUM VOLUME?		D
Answer Options					
Option A		Option B		Option C	
Option D					

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		The electrons	The protons	The neutrons	Empty space (vacuum)
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14.	3_15 Science 3627	Chapter 4 Materials: Metals and Non-Metals	Anand took four colourless solutions P, Q, R and S, and performed the following tests. What is the definite conclusion that Anand can reach		Solution P	Solution Q	Solution R	Solution S	D
				With methyl orange	No change in colour	Turns red	No change	No change	
				With phenolphthalein	No change in colour	No change in colour	No change in colour	Turns pink	
				With blue litmus	No change in colour	Turns litmus red	No change in colour	No change in colour	
				With red litmus	No change in colour	No change in colour	No change in colour	Turns litmus blue	
Answer Options									
		Option A	Option B	Option C	Option D				
		Both P and S are salt solutions.	Both Q and S are basic solutions.	Both Q and R are salt solutions.	Both P and R are neutral solutions.				
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15.	3_16 Science	Chapter 4 Materials:	Water can be made to boil above its						B

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	2450	Metals and Non-Metals	normal boiling point of 100° Celsius by_____.	
Answer Options				
Option A		Option B		Option C
increasing the quantity of water being boiled		boiling the water in a tightly closed container		heating the water on low flame in a wide vessel
Option D				
boiling the water at a high altitude, like in the hills				