# ST. THOMAS' SCHOOL, SUNARI, AGRA

## Specimen Question Paper (2024-25)

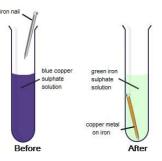
Class- VII

## Subject- Chemistry

Time allo	owed - 2 Hours		Maximum marks – 80
Name:		Sec:	Roll no
General	Instructions:		
• Ansv	ver to this paper must be written o	on the paper provided separately.	
• You	will not be allowed to write during	g first 15 minutes.	
• This	time to be spent in reading the qu	lestion paper.	
• The	time given at the head of this que	stion paper is the time allowed for wr	iting the answers.
• All th	ne questions are compulsory.		-
• Don'	t copy questions in answer script.	Pay attention to the correct numbering	ng of answers.
		ttention to the margins & neatness.	
• The	intended marks for questions or p	art of questions are given in the brack	kets [].
Questio	n 1. Choose & write the correct a	nswer:	[5]
(i)	Which of the following is not a	chemical change characteristic?	
(a) c	hange in colour	(c) change in odou	r
(b) c	hange in state	(d) evolution of gas	
(ii)	Which of the following metals	have low density?	
(a) l	ead	(c) sodium	
(b) i		(d) mercury	
(iii)	Which is the natural way of ad	ding oxygen to air which involves gree	en plants?
	espiration	(c) dissolution	
	purning	(d) photosynthesis	
(iv)	-	he method to prevent from rusting?	
	reasing	(c) painting	
	precipitation	(d) galvanization	
(v)	Name the substance which und		
	eactant	(c) chemical reactio	n
(b) ¢	product	(d) valency	
Questio	n 2. Complete the following sente	ences:	[5]
(i)	is the hardest known s	substance on the earth's crust.	
(ii)	gets rusted due to the	action of oxygen and moisture on it.	
(iii)	gas is used in fire exting	guishers.	
(iv)	A substance that alters the rate	of a chemical reaction is called a	
(v)	The process by which food is br	oken down into simpler forms is calle	ed
Questio	n 3. Correct the following false st	atements by writing the correct stat	ement. [5]
(i)	A chemical reaction is one in wh	hich no new substance is formed.	
(ii)	Car exhausts have converters w	hich increase air pollution.	
(iii)	A partial lunar eclipse occurs w	hen the moon is totally hidden by ear	th.
(iv)	Fulcrum is the object that need		
(v)	Wheel and axle is second class l		
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	COLUMN A		COLUMN B	
(i)	Helium	1.	Chemical change	
(ii)	Digestion of food	2.	Filling light bulbs	
(iii)	Sulphur dioxide	3.	78 %	
(iv)	Oxygen	4.	Weather balloons	
(v)	Argon	5.	Causes acid rain	
estio	n 5. Answer in one or two words.			
(i)	A catalyst used in the decomposition of potassium chlorate.			
(ii)	A short hand notation of a chem	ical reaction using th	ne names of the reactants and produ	ucts.
(iii)	A purple colour non-metal.			
(iv)	A noble gas which is used in the	treatment of cancer		
(v)	A metalloid used as a semi-cond	uctor in electronic d	evices.	
	1 6. Write the name of the compo	unds of the following	g formulae:	
(i) (ii)	H <sub>2</sub> O <sub>2</sub> MnO <sub>2</sub>			
(ii) (iii)	C <sub>2</sub> H <sub>6</sub>			
(iv)	C <sub>2</sub> H <sub>6</sub>			
()	00.10			
	<b>7.</b> Write the symbols and Latin na	ames of the followin	g elements:	
(i)	Germanium			
(ii) (iii)	Caesium			
(iii) (iv)	Molybedum Scandium			
(10)	Scandidin			
	n 8. Give two examples of each of	the following:		
(i)	Physical change			
(ii)	Metals			
(iii)	Metalloid			
	n 9. Define the following terms:			
(i)	Acid rain			
(ii)	Galvanization			
(iii)	Chemical change			
		ue that is best suite	d to separate the following types of	
ctures				
(i)	Husk from grains			
(ii)	Tea from tea leaves			
(iii)	Magnet from junkyards			
estio	n 11. Derive the formulae of the fo	llowing compounds		
(i)	Ethanol			
(ii)	Isopropanol			
(iii)	Formic acid			

### Question 12. Diagram based question:



- (i) Which process is depicted in the given figure?
- (ii) Will there be any change in the colour of the solutions? If yes, why?
- (iii) Write the word equation involved in the experiment.
- (iv) What happens when an iron nail is dipped in copper sulphate solution?

### **Question 13. HOTS questions**

- (i) Can compounds react with each other in a solid state? What is done to make them react? Discuss.
- (ii) Silicon is used in making microchips for computers and other electronic devices. Why is it chosen over metals such as copper?
- (iii) The Mathura refinery is situated about 50 km away from the Taj Mahal. How is it affecting the famous monument?
- (iv) Smoke precipitators are installed in the chimneys of factories. What is their role?

### Question 14. Distinguish between the following: (Write two points.)

- (i) Malleability and Ductility
- (ii) Reactant and product
- (iii) Physical and chemical change

#### **Question 15. Short answer questions:**

- (i) State any two uses of each of the following elements:
  - (a) Chlorine
  - (b) Silicon
- (ii) Mention the harmful effects caused by the following air pollutants:
  - (a) Chlorofluorocarbons
  - (b) Carbon monoxide
- (iii) What does effervescence in a chemical reaction show? Write an example of a chemical reaction in which effervescence occurs.
- (iv) Mention any two examples of the following changes:
  - (a) Undesirable change
  - (b) Reversible change
- (v) How is oxygen prepared from water?

### **Question 16. Long answer questions:**

- (i) Explain any three methods to prevent rusting?
- (ii) What are the conditions necessary for a chemical reaction to take place?
- (iii) State any three ways by which we can conserve energy and help reduce air pollution.
- (iv) Write any three properties of chemical change.

[4]

[4]

[6]

[10]

[12]