Date- 25/09/24

St. Thomas' School, Sunari, Agra Half yearly Specimen Question paper (2024-25)

Class: VI Subject: Chemistry

M. Time: 2 Hour Name:	M. Marks: 80 Roll no.	
		-
Question 1 Choose & write the corre	t option: [5	5]
a) Calcium hydrogen carbonate b) Calcium carbonate (ii) is used in making a) Sulphur b) Hydrogen (iii) is a chemical char a) Respiration b) Fermentation (iv) What are the substances that a) Products b) Catalysts	c) Calcium bicarbonate d) Calcium chloride jewellery, for cutting and grinding glass. c) Diamond d) Graphite nge which is irreversible, desirable and exothermic. c) Ingestion d) Assimilation articipate in a chemical reaction called? c) Reactants d) metalloids emical process occurring inside living things. c) Corrosion d) Respiration	
Question 2 Complete the following so	ntences. [5	5]
(v) A change in which energy	on of oxygen and on it change. equation shows the direction of the chemical reaction is called an endothermic reaction. statements by writing the correct statements, if there is no [5	;]

(iii) (iv) (v)	Reaction of nitrogen and hydrogen form Nitric acid. Photosynthesis is an exothermic chemical change. Using public transport and walking can help to reduce water pollution			
Question 4. Write the name of the compounds of the following formulae.				
i. PCl₅ ii. Ba((iii. K₂C iv. (N⊦ v. Na₂	OH) ₂ Cr ₂ O ₇ H ₄) ₂ SO ₄			
Quest	cion 5. Answer in one or two words.	[5]		
(i) (ii) (iii) (iv) (v)	A short hand notation of a chemical reaction using the names of the reactants and products A purple color non-metal. A noble gas which is used in the treatment of cancer. A solid which sublimes easily. A catalyst used in the decomposition of potassium chlorate.	5.		
Quest	tion 6. Write the symbols and latin names of the following elements.	4]		
i. Tun	gsten			
ii. Ant	imony			
iii. Mercury				
iv. Neon				
Question 7 Give two examples of each of the following. [4				
(i) (ii) (iii) (iv)	Ductile metals Air pollutants Undesirable change Gaseous non-metals			
Question 8 Define the following terms. [4]				
(i) (ii) (iii) (iv)	Metalloid Combustion Acid rain Galvanization			
mixtu i. Solic ii. Soli iii. Liq	tion 9. Name the separating technique that is best suited to separate the following types of res. d - Solid d - liquid uid - Gas uid – Solid			

Question 10. Derive the formulae of the following compounds.

- i. Sodium nitrate
- ii. Sodium perborate
- iii. Trichloromethane
- iv. Dinitrogen monoxide

Question 11. Distinguish between the following.

[6]

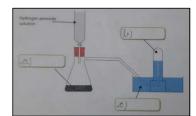
(4)

- (i) Malleability and Ductility
- (ii) Combustion and Respiration

Question 12. Diagram based question.

[4]

- (i) Label a, b and c and write the name of the experiment shown.
- (ii) Is there any gas released? If yes, name it.
- (iii) Name the catalyst involved in the experiment.
- (iv) Write the word equation involved



Question 13. Short answer questions.

[10]

- (i) What does effervescence in a chemical reaction show? Write an example of a chemical reaction in which effervescence occurs.
- (ii) State any two uses of each of the following elements:
 - a) Chlorine
 - b) Silicon
- (iii) What are allotropes?
- (iv) When sulphur is heated in a test tube, its color and state of matter changes. Is this considered a physical or a chemical change? Why?
- (v) Write the name of the different constituents of the following alloys:
 - a) Stainless steel
 - b) Bronze

Question 14. Long answer questions.

[15]

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

Note:

This specimen paper is provided as an example of the format and type of questions that may appear on the half yearly exam (2024-25). It is intended to help students familiarize themselves with the structure and expectations of the exam

