

Chemistry Full Syllabus Test

VII (ICSE) Full Syllabus Test Full Marks : 80
Topic: Full Syllabus Time : 2 hrs.

SECTION -	- A
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		SECTION 11		
		(Compulsory)		_
(a)	Classify the following elements as	metals, non-metals and metal	loids.	5
	Silicon			
	Sulphur			
	Platinum			
	Hydrogen			
	Copper			
(b)	Define the following:			5
	(i) Homogenous mixtures			
	(ii) Rusting of iron			
	(iii) Nitrogen fixation			
	(iv) atomicity			
	(v) Polyatomic molecules			_
, ,	State whether True or False:			5
	(i) Milk is a mixture.			
	(ii) No new substance is formed du	ring chemical change.		
	(iii) Sulphuric acid is a weak acid.			
	(iv) Black residue is formed when s	_		
<i>(</i> 1)	(v) A conical flask is used for stori			_
(a)	Match the apparatus with its cor			5
	Bunsen burner	Mixing and storing gases		
	Thistle funnel	Heating purposes		
	Wire gauze	Measuring liquids		
	Measuring cylinder	Transferring liquids		
	Conical flask	Preventing cracking of a glass	apparatus during heating	_
(e)	State whether true or false:			5
	(i) Marble is a hydrated calcium s	•		
	(ii) Oxygen burns in an atmosphe	re of acetylene producing very	nigh temperatures which is used	tor
	welding and cutting metals.			
	(iii) Metals occur in nature in both			. 1
	(iv) Rusting is a slow oxidation p	process in which iron slowly re	acts with oxygen of the air in	the
	presence of moisture.	1 61 : 11		
(0	(v) Water freezing into ice is an ex	ample of chemical change.		_
	Choose the correct option:	and and design of all and a in in-9		5
	(i) Which of the following is the b	•	(D) F	
	(A) Ag (B) Cu	` '	(D) Fe	
	(ii) The natural way of adding oxy			
		spiration (C) burning	(D) dissolution	
	(iii) A metalloid used in the manufa	•	•	
		rmanium (C) silicon	(D) arsenic	
	(iv) When sodium carbonate reacts	•	-	
	(A) CO2 (B) N2	(C) O_2	(D) H_2	



	(v) V	Which of the fol	lowing exhibits variable v	alency?			
	(A) Ca	(B) Cu	(C)	C	(D) Na	
(g)	Fill i	n the blanks a	nd rewrite the sentences:	•			
			ide acts as a du	iring the form	nation of oxygen.		
			ndle, is formed.				
			m chloride is dissolved in		S		
			lid on heating turns into _				
			ater increases the	point of w	ater.		
(h)	Balance the following reactions:						
	(i) $Mg + O_2 \rightarrow MgO$						
	(ii)	$H_2O \rightarrow H_2 + O$	2				
	(iii) $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$						
	(iv)	NaHCO ₃ + H ₂ S	$O_4 \rightarrow Na_2SO_4 + H_2O + O_4$	CO_2			
		$Zn + HCl \rightarrow Zn$		-			
	(')		5-2 - 1-2				
			SECT	ION – B			
				any four)			
(a)	Com	pare in tabular i	Form properties of solids, I	•	ases with respect to:		
	(i) S	Shape					
	(ii) Y	Volume					
	(iii) (Compressibility					
		Diffusion					
		Fluidity or Rigic	•				
(b)	Mat	ch the following	j:				
[Column I		Column II		
	(a)	Solid 'X' to liq		(p)	Liquefaction		
	, ,	Liquid 'X' to it		(q)	Solidification		
}	(c)	'Z' to 'X'	<u> </u>	(r)	Melting		
	(d)	'Y' to 'X'		(s)	Boiling point		
	(e)		e at which 'Y' changes to		Vaporisation		
(a)	(/	the difference		(-)	r		
` '	(i) Physical and Chemical changes						
		•	ies of Metals and non-met	tals			
(b)	Give	the application	n of the following metho	ds used for s	eparation of subst	ances.	
	(i) Sedimentation						
	(ii) Filtration						
	(iii) I	Evaporation					
	(iv) I	Distillation					
	(v) (Centrifugation					
(a)	(i) What are endothermic reactions? Give an example.						
	(ii) What is radical? Give one example of trivalent negative radical.						
(b)	Mark the properties as A or M for atoms and molecules respectively.						
	(i) All can exist independently.						
		_	hemical reaction.				
	(iii) I	Determines the p	properties of the matter.				



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(ii) liquid at room temperature(iii) a good conductor of electricity

(c) Explain why the iron pillar of Delhi has not rusted yet.

4 (c) Give word equations to represent following observations in chemical reactions. (i) Two gases combine to give a solid product. (ii) White precipitate is formed. (iii) An effervescence of colourless gas is observed. (iv) A green solid turns black on heating. (a) Complete the following table: 2 Indicator **Solutions** Colour Litmus Lemon Juice Sodium hydroxide Pink Turmeric juice Soap solution Phenolpthalin solution Orange juice 2 (b) Write two evidences to show air is a mixture, not a compound. (c) Mention the valency of underlines element or radical in each of the following compounds: 2 (i) HgCl (ii) Al_2O_3 (iii) NH₃ (iv) H_2S (d) Write one use of each of the following: 2 (i) Nitric acid (ii) Sodium benzoate (e) Write the full form and constituents of SPM. 2 (a) Write any three comparisons between burning and respiration. 3 (b) Name an acid found in acid rain. How is it formed? Write equations. 3 (c) (i) Draw a labelled diagram to show laboratory preparation of O_2 . 4 (ii) Write a balanced equation for the above. (iii) How is O_2 collected? (iv) State a test for O_2 gas. (a) Write the formula of the following substances: 3 (i) Washing soda (ii) gypsum (iii) lime stone (b) Complete and balance the following reactions: 3 (i) $KOH + H_2SO_4 \rightarrow$ (ii) $Mg + HCl \rightarrow$ (iii) $CaCO_3 + HCl \rightarrow$ (c) Name the following: 4 (i) A metal that does not displace hydrogen from an acid. (ii) A salt formed on partial replacement of H atom of an acid. (iii) An acid used as antiseptic. (iv) A supplement to common salt to prevent goitre. (a) State three differences between chemical properties of metals and non-metals. 3 (b) Name a non-metal that is 3 (i) lustrous and diatomic

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