

CHINMAYA INTERNATIONAL RESIDENTIAL SCHOOL

COIMBATORE

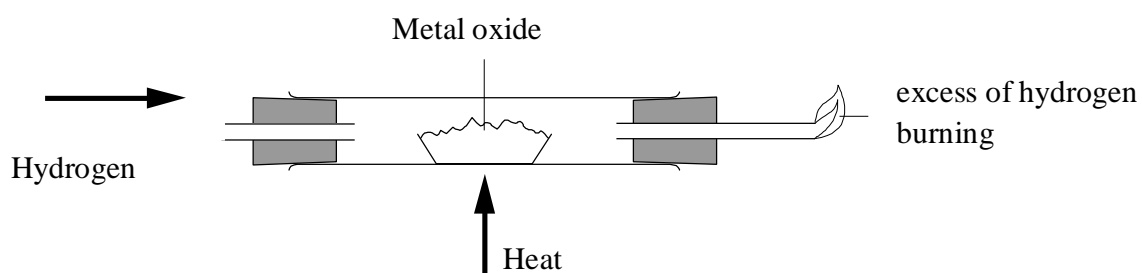
ENTRANCE EXAM : SAMPLE PAPER

(FOR ADMISSION TO ACADEMIC YEAR 2014)

CLASS: 11 CBSE

SUBJECT: CHEMISTRY

01. When hydrogen is passed over a heated metal oxide, the metal and steam are formed.



What happens to the hydrogen and to the metal oxide?

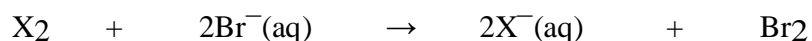
	hydrogen	metal oxide
A	oxidised	oxidised
B	oxidised	Reduced
C	reduced	Oxidized
D	reduced	Reduced

02. A student heats a mixture of ammonium chloride and calcium hydroxide. She tests the gas given off with damp red litmus paper.

What is the name of the gas and the final colour of the damp litmus paper?

	gas	colour
A	ammonia	blue
B	ammonia	red
C	chlorine	red
D	chlorine	white

03. The equation shows the reaction between a halogen and aqueous bromide ions.



...1... ...2...

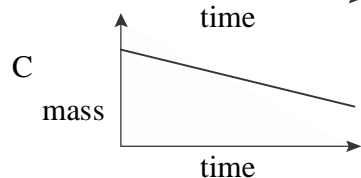
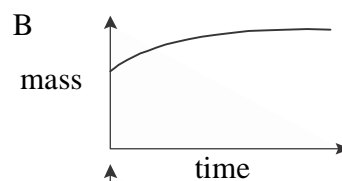
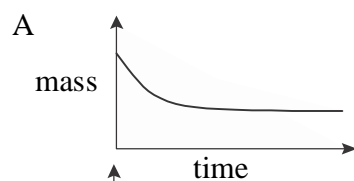
 ...3...

Which words should be written in gaps 1, 2 and 3?

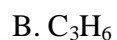
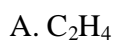
	1	2	3
A	chloride	brown	colourless
B	chlorine	colourless	brown
C	iodine	brown	colourless
D	iodine	colourless	brown

04. The graphs show the mass of a beaker and its contents plotted against time.

Which graph could represent the reaction between magnesium and dilute hydrochloric acid in an open beaker?



05. Which of the following compounds have a triple bond?



D. Both (a) and (c)

06. Which one of the following groups constitutes the fossil fuels?

A. Natural gas, oil and wood pieces

B. Oil, wood pieces and dry dung

C. Coal, wood pieces and oil

D. Coal, oil and natural gas

07. The following diagram is a part of the periodic table containing first three periods in which five elements have been represented by the letters P, Q, R, S and T (which are not their chemical symbol)

1							18
P	2	13	14	15	16	17	
				Q		R	
	S				T		

What will be the formulae compounds formed when Q and S are combined respectively with T and R?

- A. QT and SR B. Q_2T_3 and S_2R C. Q_2T and S_2R_3 D. Q_2T_3 and SR_2

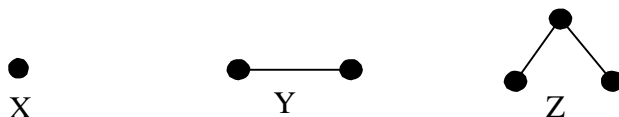
08. Which of the following is a medicine for indigestion?

- A. Sodium hydroxide B. Magnesium hydroxide
C. Manganese hydroxide D. Potassium hydroxide

09. What will be the observation, if you bring a match stick near the test tube containing sodium carbonate and dil. HCl?

- A. the gas catches fire B. the match stick gets extinguished
C. the match stick burns faster D. there is no effect

10. The diagrams show models of molecules.



Which molecules could the above models represent?

	X	Y	Z
A	helium	hydrogen chloride	water
B	helium	chlorine	methane
C	hydrogen	hydrogen chloride	water
D	hydrogen	hydrogen chloride	methane