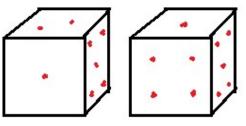
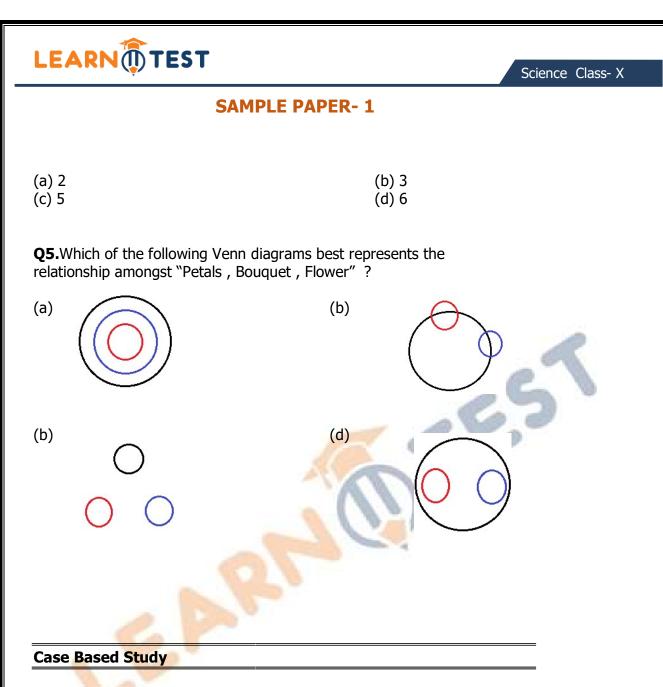


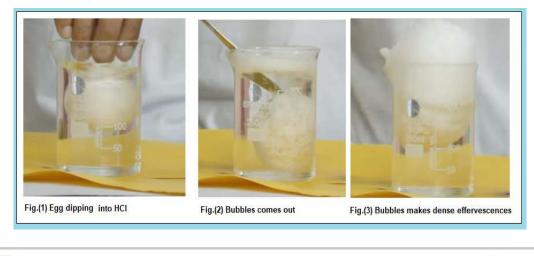
How many dots are there on the face opposite to the face with four dots ?







## Direction : Read the attached passage & answer the question Q6



6





#### Science Class- X

(b)  $C_2 H_5 COOH$ 

(D) HCI

# **SAMPLE PAPER-1**

### to Q7

Henry did an experiment with *muriatic acid*& *whole Egg*(:). Fig.(1) He dipped the whole-Egg in abeakerfilled withmuriatic acid. Fig(2) Bubbles come out slowly initially andlater it formed dense effervescences.

Fig(3) Effervescencescan be seen at the mouth of the Beaker.

Answer the following Questions

#### Q6. Chemical formula of Muriatic Acid

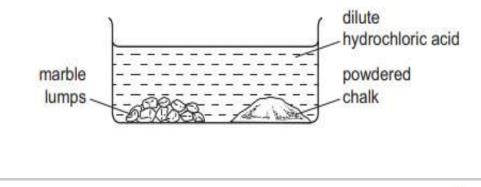
- (a)  $H_2SO_4$
- (c)  $H_3PO_3$

#### Q7. What is the Reason of dense effervescences

- (a) Ammonia is produced as a gas which bubbles out
- (b) Carbon di oxide gas is produced which bubbles out
- (c) Hydrogen gas is produced which bubbles out
- (d) Bubbles is due tooxygen attached with the Eggs Shell

## Multiple Choice Question [MCQ]

**Q8.**Marble and chalk are two forms of calcium carbonate.





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Science Class- X

# **SAMPLE PAPER-1**

The diagram shows equal masses of lumps of marble and powdered chalk placed in dilute hydrochloric acid.

Why marble takes more timethan chalk to dissolve in acid.

- (a) Marble is more reactive than chalk.
- (b) Marble is more soluble than chalk.
- (c) The marble has smaller surface area as compared to chalk.
- (d) The marble is more basic.

**Q9.**Zinc bar is dipped into Copper Sulphate Solution

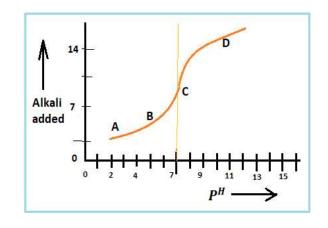
$$Zn + Cu^{2+}SO_4^{2-} \rightarrow Zn^{2+}SO_4^{2-} +$$

Cu

Write the Reducing & Oxidising Agent for the above reaction:

(a)Zn is Oxidising, Cu is Reducing Agent (b) Zn is Oxidising  $,SO_4^{2-}$  is Reducing Agent (c)CuSO4 is Oxidising , Zn is Reducing Agent (d)Cu is Oxidising  $,SO_4^{2-}$  is Reducing Agent

**Q10.** The graph given below depicts a neutralization reaction







## **SAMPLE PAPER-1**

#### Acid+ Alkali → Salt + Water

The pH of a solution changes as we add excess of alkali to an acid

Which letter denotes the area of the graph where both alkali& salt are present?

(a) A	(b) B
(c) C	(d) D

#### **Q11. P**, **Q**, **R** and **S** are four metals.

P reacts rapidly with dilute acid, but it slowly forms bubbles of gas in cold water.

- **S** reacts slowly with dilute acid, but it displaces
- **Q** from an aqueous solution of its salt.
- **R** reacts rapidly with cold water.

What is the order of reactivity of the metals?

	least reactive		→ most reactive	
A	Q	S	P	R
в	R	P	S	Q
С	R	S	Р	Q
D	S	Q	Р	R

**Q12.**Dilutingacid with water is an exothermic reaction . How will you protect yourself from accidentswhile diluting a concentrated acid?

- (a) By adding acid to water with constant stirring.
- (b) By adding water to acid with constant stirring.
- (c) By adding water to acid followed by base.
- (d) By adding base to acid with constant stirring.





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# SAMPLE PAPER- 1

**Q13.**The  $P^H$  of the solution is given as : (a)  $P^{H} = \log[H^{+}]$  (aq.) (b)  $P^{H} = -\log[H^{+}]$  (aq.) (c)  $P^{H} = [H^{+}]$  (aq.) (d) None of these

# **Assertion & Reason**

The given below Statement in Assertion(A) is followed by a statement of Reason(R). Make the correct choice of that :

(a) Assertion(A) and Reason(R) are both True and Reason is the Correct Explanation

(b) Assertion(A) and Reason(R) are both True but the Reason(R) is not the correct

explanation.

(c) Assertion(A) is Correct but Reason(R) is not Correct.

(d) Assertion(A) is not Correct but Reason(R) is Correct.

Ca

\_\_\_\_\_\_

\_\_\_\_\_

OCI

Q14.

Assertion : It is a

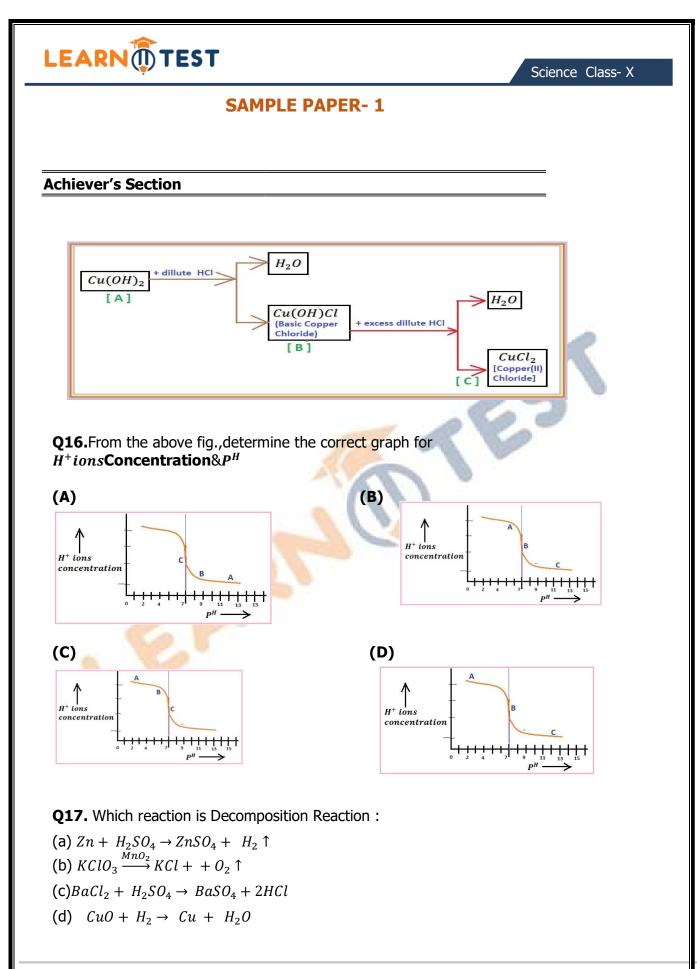
Reason: It contain two

anions **Bleaching Powder** 

mixed salt

**Q15. Assertion** :  $3Fe + 4H_2O$  (steam)  $\rightarrow Fe_3O_4 + 4H_2$ the reaction is a balanced chemical equation. Reason : Thechemical equation follows the Law of conservation of mass.

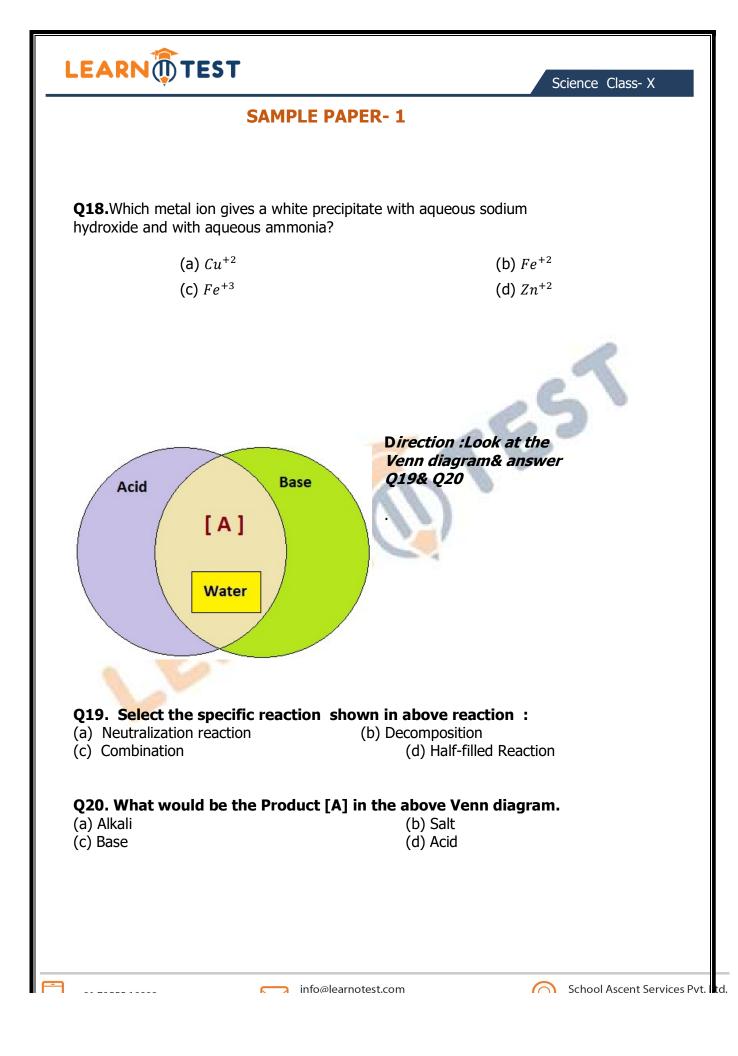




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Science Class- X

# SAMPLE PAPER- 1

KEY : MOCK TEST-01

### Verbal & Non Verbal Reasoning

- Q1: Answer :(b) Uncle
- Q2: Answer :(b) BOMBYA
- Q3: Answer :(b) 9
- **Q4: Answer :**(a) 2
- Q5: Answer :(a)

### Case Based Study

Q6. Answer: (D) HCl

Q7.Answer :(b) Carbon di oxide gas is produced which bubbles out

## Multiple Choice Question [MCQ]

**Q8.**(c) The marble has the smaller surface area.

**Q9.**(c) Cu is Oxidising , Zn is Reducing Agent

**Q10.**(d) D

Q11. Answer (A)

**Q12. Answer** (a) By adding acid to water with constant stirring.

6

**Q13. Answer** (b)  $P^{H} = -\log[H^{+}]$  (aq.)



$$\bigcirc$$



## **SAMPLE PAPER-1**

#### **Assertion & Reason**

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The given below Statement in Assertion(A) is followed by a statement of Reason(R) .Make the correct choice of that :

(a) Assertion(A) and Reason(R) are both True and Reason is the Correct Explanation

(b) Assertion(A) and Reason(R) are both True but the Reason(R) is not the correct explanation.

(c) Assertion(A) is Correct but Reason(R) is not Correct.

(d) Assertion(A) is not Correct but Reason(R) is Correct.

**Q14.** Answer: (a) Assertion(A) and Reason(R) are both True and Reason is the correct explanation of assertion

Q15. Answer: (a) Assertion(A) and Reason(R) are both True and Reason is the Correct explanation of assertion

**Achiever's Section** 

Q16: Answer (A)

Q17: Answer (b)  $KClO_3 + MnO_2 \rightarrow KCl + MnO_2 + O_2 \uparrow$ 

**Q18:** Answer (d)  $Zn^{+2}$ 

Q19:Answer: (a) Neutralization reaction

Q20:Answer:(b) Salt

