



SHIKSHA CLASSES

Sub. : Science

Question Paper

Marks : 20

Std. : VIIIth - S.B.

12. Introduction to Acid and Base

Time : 45 min.

Q.1(A) : Choose the correct alternative

2

1) The colour of phenolphthalein indicator in alkaline solution is

- a) yellow b) green c) orange d) pink

2) is sour to taste.

- a) An acid b) An alkali c) A salt d) Alcohol

Q.1(B) : Solve any one of the following question

1

1) State the following statement is true or false.

Salts are neutral.

2) Find the odd one out

HCl, CH₃COOH, H₂SO₄, HNO₃

3) State three vegetables from which natural indicators can be prepared.

Q.2(A) : Give reason (Any One)

2

1) When we have stomachache doctors prescribe medicine containing magnesium hydroxide.

2) Tarnished and stained copper vessels are brought to a shine by using tamarind pulp.

Q.2(B) : Solve any two of the following question.

4

1) Sulphuric acid has highest importance in chemical industry. Why?

2) The label on the bottle of chemical is spoiled. How will you find whether the chemical is acidic or not?

3) Which are the industrial uses of acids?

4) Match the following:

Column 'A'	Column 'B'
1. Strong acid	a. Magnesium hydroxide
2. Weak alkali	b. Carbonic acid
3. Weak acid	c. NaOH
4. Strong alkali	d. Nitric acid

Q.3 : Solve any two of the following question.

6

1) Taste the colour change for each of the following solutions with red litmus, blue litmus, phenolphthalein and methyl orange solutions.

1) Sulphuric acid (H_2SO_4) 2) Calcium hydroxide [$Ca(OH)_2$] 3) Sodium hydroxide (NaOH)

2) Name the acid present in (1) Orange (2) Vinegar (3) Tamarind (4) Curd
(5) Tomato (6) Lemon.

3) Write the chemical names from given formulae:

H_2SO_4 , $Ca(OH)_2$, HCl, NaOH, KOH, NH_4OH

4) Write the difference between acid and alkali.

Q.4 : Solve any One of the following question.

5

1) Identify the following solutions, whether they are acid or alkali.

Solution	Change in Indicator			Acid/Alkali
	Litmus	Phenolphthalein	Methyl orange	
1.	...	No change	Acid
2.	Orange colour turns red
3.	Red litmus turns blue

2) Explain the neutralization with example. Write reaction also.

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