



	c) Antidote	d) Expectorant		
Q 11	<b>Replacement therapy is required during _____</b>		1	CO2
	a) excess loss of water	b) metabolic acidosis		
	c) metabolic alkalosis	d) All of these.		
Q 12	<b>Which one of the following acids is used in the limit test for sulphur?</b>		1	CO1
	a) Hydrochloric acid	b) Thioglycollic acid		
	c) Nitric acid	d) Barium chloride		
Q 13	<b>The major storage of iron in body is</b>		1	CO1
	a) transferrin	b) apoferritin		
	c) ferritin	d) none of these		
Q 14	<b>You are presented with a solution that has a pOH of 2.13. What is the pH of this solution?</b>		1	CO1
	a) 2.13	b) 6.57		
	c) 11.87	d) None of these		
Q 15	<b>An example of lewis base is _____</b>		1	CO1
	a) NH <sub>3</sub>	b) BF <sub>3</sub>		
	c) both (a) and (b)	d) NaOH		
Q 16	<b>An example of amphoteric substance is</b>		1	CO1
	a) Al(OH) <sub>3</sub>	b) NaOH		
	c) Ca(OH) <sub>2</sub>	d) None of these		
Q 17	<b>_____ is used to prevent dental caries.</b>		1	CO2
	a) Sodium chloride	b) sodium fluoride		
	c) Potassium chloride	d) stannous chloride		
Q 18	<b>What is the pH for a 0.05M solution of hydrochloric acid?</b>		1	CO1
	a) 1.3	b) 0.05		
	c) 2.7	d) 1.7		
Q 19	<b>An example of physiological buffer is _____</b>		1	CO2
	a) HCl	b) Hemoglobin		
	c) NH <sub>4</sub> OH	d) All of these		
Q 20	<b>The white precipitate formed in sulphate limit test is _____</b>		1	CO1
	a) Ferrous sulphate	b) Barium chloride		
	c) Barium sulphate	d) none of these		
<b>SECTION B (20 Marks)</b> <b>(2Qx10M=20 Marks)</b>				
<b>Attempt 2 Question out of 3</b>				
Q 1	a) Explain the difference between absorbable and non-absorbable antacids. b) Why are aluminum compounds more effective than other antacids? c) "Combinations of antacids therapy required as effective medicament."-Justify it.		2+2+2 +4	CO2

	d) Write a short note on milk of magnesia		
<b>Q 2</b>	a) How can one substance, such as water, be both an acid and a base, according to the Brønsted-Lowry definition? Explain it with examples. b) In a buffer made by mixing 0.40 moles of sodium hydrogen carbonate with 0.61 moles of sodium carbonate, how much acid can be added before the pH changes by more than 1 pH unit? c) Discuss the conditions required to get maximum buffer capacity of an acidic buffer?	3+4+3	<b>CO2</b>
<b>Q 3</b>	a) Explain the difference between laxative and purgative? b) Write down the classification of laxative with examples. c) Illustrate the mechanism of action of laxative.	2+3+5	<b>CO1</b>
<b>SECTION-C (35 Marks)</b> <b>(7Qx5M=35 Marks)</b>			
<b>Attempt 7 Question out of 9</b>			
<b>Q 1</b>	Define the term emetics and expectorants with example.	5	<b>CO2</b>
<b>Q 2</b>	(a) Write the role of citric acid in the limit test of iron. (b) What do you mean by conjugate base and acid? What are the limitations of Arrhenius theory concept.	2+3	<b>CO1</b>
<b>Q 3</b>	Prove that $\text{pH} + \text{pOH} = 14$ . Calculate the pH of a buffer solution made from 0.30 mol/L $\text{HC}_2\text{H}_3\text{O}_2$ and 0.50 mol/L $\text{C}_2\text{H}_3\text{O}_2^-$ . The acid dissociation constant of $\text{HC}_2\text{H}_3\text{O}_2$ is $1.8 \times 10^{-5}$ .	5	<b>CO1</b>
<b>Q 4</b>	What is the remedy of cyanide poisoning?	5	<b>CO2</b>
<b>Q 5</b>	Discuss different ways to determine pharmaceutical impurities.	5	<b>CO1</b>
<b>Q 6</b>	What do you mean by tooth decay? Write down the mechanism of action of sodium fluoride (NaF).	2+3	<b>CO2</b>
<b>Q 7</b>	Write a short note on ammonium hydroxide gel used as antacid.	5	<b>CO2</b>
<b>Q 8</b>	What are the pharmaceutical uses of radiopharmaceuticals? How to handle radiopharmaceuticals?	2+3	<b>CO2</b>
<b>Q 9</b>	Illustrate the physiological acid-base balance.	5	<b>CO1</b>

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