

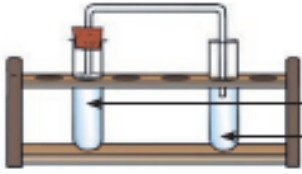
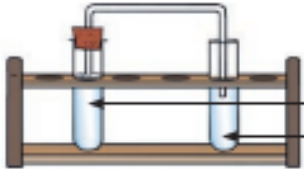
Class-VII
Mid Term (2025-2026)
Subject: CHEMISTRY
Set: A2

Maximum marks:20

General Instructions :

- i) All questions are compulsory.
- ii) Question 1 and 2 carry 1 mark for each sub part.
- iii) Question 3 and 4 carries 2 marks.
- iv) Question 5 carries 3 marks.
- v) Question 6 carries 5 marks.
- vi) Question 7 carries 4 marks(Case Based)

Q.No	Questions	Marks
1	Choose the correct option for the following: (i) Which of the following statements are the characteristics of a physical change? (i) The state of the substance may or may not change. (ii) A substance with different properties is formed. (iii) No new substance is formed. (iv) The substance undergoes a chemical reaction (a) (i) and (ii) (b) (ii) and (iii) (c) (i) and (iii) (d) (iii) and (iv) (ii) A solution turns the red litmus paper to blue. Excess addition of which of the following solutions would reverse the change? (a) Lime water (b) Baking soda (c) Vinegar (d) Common salt solution (iii) You are provided with three unknown solutions labelled A, B, and C, but you do not know which of these are acidic, basic, or neutral. Upon adding a few drops of red litmus solution to solution A, it turns blue. When a few drops of turmeric solution are added to solution B, it turns red. Finally, after adding a few drops of red rose extract to solution C, it turns green. Based on the observations, which of the following is the correct sequence for the nature of solutions A, B, and C? (i) Acidic, acidic, and acidic (ii) Neutral, basic, and basic (iii) Basic, basic, and acidic	1 1 1
2		

	(iv) Basic, basic, and basic Read the Assertion and Reason statement carefully and mark the correct option out of the following options: a) If both assertion and reason are true and the reason is the correct explanation of the assertion. b) If both the assertion and reason are true but the reason is not the correct explanation of the assertion. c) If assertion is true but reason is false d) If both assertion and reason are false. Assertion: Rusting of an iron nail is a chemical change . Reason: It does not involve the formation of a new substance.	1															
3	Differentiate between acids and bases by giving any two points of difference for each. OR How can you obtain red rose extract to be used as an acid-base indicator from rose flowers? Mention the steps in brief.	2															
4	Complete the table given below: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>S No.</th><th>Name of the sample</th><th>Name of acid present</th></tr> </thead> <tbody> <tr> <td>1</td><td>Tamarind</td><td></td></tr> <tr> <td>2</td><td>Vinegar</td><td></td></tr> <tr> <td>3</td><td>Amla</td><td></td></tr> <tr> <td>4</td><td>Curd</td><td></td></tr> </tbody> </table>	S No.	Name of the sample	Name of acid present	1	Tamarind		2	Vinegar		3	Amla		4	Curd		2
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1	Tamarind																
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5	Three liquids are given to you. One is vinegar, another is lime water , and the third one is sugar solution. Can you identify them by using turmeric paper only? Explain.	2+1 =3															
6	Study the diagram given below and answer the following questions:  (a)  (b) (i) In which of the above cases ,lime water will turn milky and why? (ii) Which gas is responsible for turning lime water milky?	2+1 +1+ 1=5															

	(iii) Write the chemical equation for the above change. (iv) Write any two characteristics of a chemical change. OR A small piece of Magnesium ribbon was heated in flame . It was observed that it starts burning with flame and leaves residue after burning. (i) What is the colour of the residue left after burning of Magnesium ribbon? Write its chemical name. (ii) Write the chemical equation involved in the above change. (iii) Define the term Combustion. Name any two solid combustible substances.	2+1 +2= 5
7.	Read the passage given below and answer the following questions: On the Farmer's Portal (an online platform from the Department of Agriculture, Cooperation and Farmers Welfare), a query from a farmer states, "My plants are not growing well lately". After a detailed discussion, it was found that the excessive use of chemical fertilisers, pesticides, waste water coming from the industries etc are responsible for this. Immediate remedies were decided to treat the soil. (a) How can we treat acidic soil? (b) Organic matter is added if soil is too basic. Give a reason. (c) What happens when an acidic substance is mixed with a basic substance? Give a general reaction for the same. OR (c) What are acid base indicators? Give any two examples for the same.	1+ 1+ 2= 4