

Practice Question – Set 2

Subject – Chemistry

Class - X

For question number 1, two statements are given, one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:

(i) Both Assertion (A) and Reason (R) are correct statements, and Reason (R) is the correct explanation of the Assertion (A).

(ii) Both Assertion (A) and Reason (R) are correct statements, but Reason (R) is not the correct explanation of the Assertion (A).

(iii) Assertion (A) is correct, but Reason (R) is incorrect statement.

(iv) Assertion (A) is incorrect, but Reason (R) is correct statement.

Q. 1) Assertion: Turmeric can be used as an indicator by a visually impaired student.

Reason: Olfactory indicators are one which changes odour in acidic and basic solutions. (1)

Q. 2) Give Reason: (2)

i) It is recommended that while diluting, the acid should be added to water and not water to the acid.

ii) An aqueous solution of an acid conduct electricity.

Q. 3) You have collected your garden soil and measured its pH which is found to be 5.2. For growing a certain plant you need an alkaline soil, which of the following you will add to get the desired quality of soil : a) ammonium sulphate b) slaked lime. Justify your answer. (2)

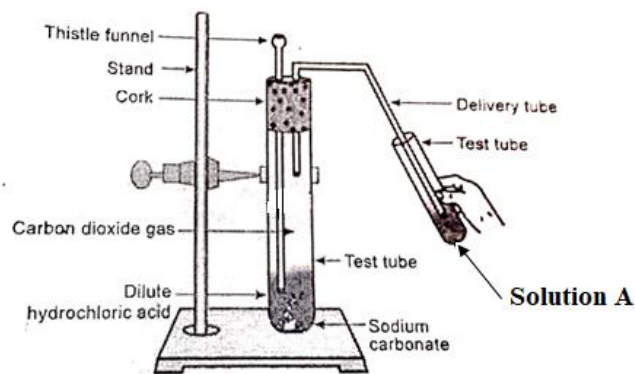
Q. 4) Calcium oxide is a basic oxide but aluminium oxide is an amphoteric oxide – justify this statement with the help of balanced chemical equation(s). (2)

Q. 5) Equal lengths of two magnesium ribbons are taken. One is introduced in test tube A which contains hydrochloric acid and the other is introduced in test tube B which contains acetic acid. In which test tube more vigorous fizzing will occur? Give reason for your answer. (2)

Q. 6) i) What will be the action of following substances on blue and red litmus paper?

Dry HCl gas, Moistened NH₃ gas.

ii) Following is the diagram for an activity to demonstrate reaction of dilute HCl with sodium carbonate. Solution 'A' is used to identify the gas evolved in the reaction.



Write the balanced chemical equation for the reaction between solution 'A' and the gas evolved in the process and also mention the observation which helps to identify the gas. (3)

Q. 7. i) Write the name given to base which is highly soluble in water.

ii) Show the dissociation of the following in aqueous solution:

a) Magnesium hydroxide b) Hydrochloric acid

iii) Can we store pickle in a copper vessel? Justify your answer. (3)
