

CUMULATIVE TEST SERIES

CLASS – X (SCIENCE)

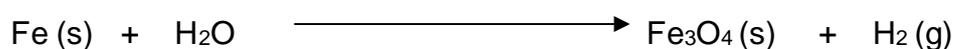
TEST – Chapter 1

(Chemical reactions and equations)

NOTE: Please read the instructions carefully

- i) The paper is of 10 marks and of 20 minutes.
- ii) There will be 3 questions of 1 marks each, 2 questions of 2 mark each and 1 questions of 3 mark.
- iii) There is no overall choice.

1. Balance the following equation: 1



2. What is happening in the following reaction: 1



3. In the reaction mentioned in question 2 above, a lot of heat energy is evolved. What does this tells about the type of reaction? 1

4. During an experiment, when two electrodes (+ and -) were inserted in water contained in a beaker, some sort of activity occurred and was detected at both the electrodes. What happened at both the electrodes? Also define the process. 2

5. The silver foil that is used in the kitchen is shining greyish white in colour, but its salts are of colours other than grey. In one of the experiment on white coloured salt of Silver Chloride, a student took some amount of salt and unknowingly kept near the window for some time as he went out to drink water. Upon returning, he saw that the dish contained some grey coloured compound instead of initially kept white coloured salt. No body disturbed his salt. Can you tell what could have happened with the white coloured salt that was kept some time before there? 2

6. Formation and destruction of substances keeps on going on in nature. 3

- a) What is corrosion?
 - b) Name some strategies used to prevent corrosion?
 - c) How will you justify the spoiling of oil based on above process?
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CUMULATIVE TEST SERIES

TEST - Chapter 2

(Acids, Bases and Salts)

NOTE: Please read the instructions carefully

- i) The paper is of 10 marks and of 20 minutes.
 - ii) There will be 3 questions of 1 marks each, 2 questions of 2 mark each and 1 questions of 3 mark.
 - iii) There is no overall choice.
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1. During one experiment in the laboratory, a solution turned blue litmus paper to red colour. What could be the pH of the solution? 1
 - a) 7
 - b) 2
 - c) 8
 - d) 12
 2. Indigestion and burning sensation is very common these days, particularly in the city dwellers. A lot of advertisements are also seen on TV regarding managing such situations. All the chemicals that are displayed on the TV to manage such situations comes under the category of: 1
 - a) Analgesic
 - b) Antibiotics
 - c) Antacids
 - d) Antiseptics
 3. Distilled water when used as a conductor in an experiment of electrical conductivity, fails to complete the circuit and the experiment does not proceeds on. The possible reason for the above observation is: 1
 - a) The experiment was not performed at right temperature.
 - b) The distilled water may not be at right temperature.
 - c) Distilled water has the capacity to hold the current, so no conduction.
 - d) Distilled water is free of solutes, so no conduction.
 4. Why do acids not show acidic behavior in the absence of water? 2
 5. Fresh milk has pH nearly 6. How do you think the pH will change when it is converted into curd? 2
 6. In the laboratory, Sodium (Na) forms two different types of compounds in the presence of Carbon, Hydrogen and Oxygen. Both the products are for domestic use, one being edible and the other being nonedible.
 - a) Name the two products.
 - b) Give their chemical formula.
 - c) Write one use of each.

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CUMULATIVE TEST SERIES

CUMULATIVE TEST -1

(Chapter 1 & 2)

NOTE: Please read the instructions carefully

- i) The paper is of 10 marks and of 20 minutes.
- ii) There will be 3 questions of 1 marks each, 2 questions of 2 mark each and 1 questions of 3 mark.
- iii) There is no overall choice.

1. Balance the following equation: 1



2. When Zinc granules are added to a test tube containing dilute Hydrochloric acid, some activity occur over Zn granules. Some bubbles are seen which if collected in a test tube and a burning match stick is brought near to the mouth of the same test tube, popping sound is heard. What does this tells us about the reaction of metals with acids? 1
3. A solution when added to some pieces of egg shell, produces a gas that when reacted to lime water, turns it milky. The solution can be: 1
- a) NaCl
 - b) LiCl
 - c) KCl
 - d) HCl
4. In villages, people directly use fresh milk for drinking or converting it into other milk products. But when the same is to be transported to cities and that too during summer season, it gets spoiled some times. In order to maintain the sale of their product, milkmen may add some amount of baking soda in it. What is the reason behind this action? 2
5. A packet of potato wafer feels very fluffy, but the amount of wafers in it is comparatively less than the size of the packet. If wafers are less than what else is there in the packet and what is its role? 2
6. Compare displacement reaction with double displacement reaction. Also give one reaction as an example of each. 3
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CUMULATIVE TEST SERIES

TEST - Chapter 3

(Metals and Non-metals)

NOTE: Please read the instructions carefully

- i) The paper is of 10 marks and of 20 minutes.
 - ii) There will be 3 questions of 1 marks each, 2 questions of 2 mark each and 1 questions of 3 mark.
 - iii) There is no overall choice.
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- 1. 'You will be surprised to know that about 2 km long wire can be drawn from just one gm of gold' said the teacher in the class. What conclusion can be drawn from the above statement regarding the physical property of gold? 1
 - 2. Which of the following method is suitable for preventing rusting of an iron frying pan: 1
 - a) Applying grease
 - b) Applying paint
 - c) Coating of zinc
 - d) All of the above
 - 3. Food cans are made of metal which is generally coated with tin but not with zinc because: 1
 - a) Zinc is costlier than tin
 - b) Zinc is less reactive than tin
 - c) Zinc is more reactive than tin
 - d) Zinc has higher melting point than tin
 - 4. Answer the following: 2
 - a) Why ionic compounds have high melting and boiling point?
 - b) Why Na metal is kept immersed in kerosene oil?
 - 5. Give reason for the following: 2
 - a) Aluminium is a reactive metal, yet it is used to make utensils for cooking.
 - b) Copper vessel if gets tarnished can be cleaned by lemon.
 - 6. Metals exists as their ores in nature. Make a flow chart to depict the three basic methods of extraction of metals from their ores?
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CUMULATIVE TEST SERIES

CUMULATIVE TEST -2

(Chapter 1 to 3)

NOTE: Please read the instructions carefully

- i) The paper is of 10 marks and of 20 minutes.
- ii) There will be 3 questions of 1 marks each, 2 questions of 2 mark each and 1 questions of 3 mark.
- iii) There is no overall choice.

1. In the reaction given below, the reactants on the left side of the arrow interact to form the product on the right side of the arrow. What type of interaction between the compounds is depicted here: 1



- a) Decomposition reaction
 - b) Displacement reaction
 - c) Combination reaction
 - d) Double displacement reaction
2. The metallic pipes used to supply water at domestic level have long life (generally 50 years), but same sized piece of iron pipe will not survive long. This is achieved : 1
- a) By a coating of tin on the pipe.
 - b) By a coating of mercury on the pipe.
 - c) By a coating of zinc on the pipe.
 - d) By a coating of aluminium on the pipe.
3. Distilled water when used as a conductor in an experiment of electrical conductivity, fails to complete the circuit and the experiment does not proceeds on. The possible reason for the above observation is: 1
- a) The experiment was not performed at right temperature.
 - b) The distilled water may not be at right temperature.
 - c) Distilled water has the capacity to hold the current, so no conduction.
 - d) Distilled water is free of solutes, so no conduction.
4. Generally metals react with acids to form H_2 (g), but this is not observed in case of nitric acid (HNO_3). Give reason for this observation. 2
5. A calcium product which was being used in the medical field to stabilize broken bones and now has become an essential base during white washing. 2
- a) Name the product.
 - b) How can we produce it in laboratory?
6. Give answers to the following: 3
- a) Define double displacement reaction. Give one example.
 - b) A shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element 'X' and the black coloured compound formed?
 - c) Electric wires are generally made of copper or silver (conductors), but for domestic supply these wires have a covering of PVC or rubber on it. What is the reason for this covering?
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