

## PRACTICE TEST PAPER: CLASS-X

### CHEMICAL REACTION (paper-iii) (X) COMBINED

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1. Complete the reactions
  - (a)  $2\text{FeSO}_4 \rightarrow \text{Fe} + \dots + \dots$
  - (b)  $2\text{Pb}(\text{NO}_3)_2 \rightarrow 2\text{PbO} + \dots + \dots$
  - (c)  $\text{Na}_2\text{SO}_4 + \text{BaCl}_2 \rightarrow \text{Ba} + \dots$
  - (d) Name the mode of nutrition in fungi.
  - (e) Name the secretion of liver.
  - (f) What is the source of  $\text{O}_2$  liberated in photosynthesis?
  - (g) Which products of respiration would be seen in mitochondria?
  - (h) How is the unused energy stored in plants and animals?
  - (i) Need of Nitrogen in plants.
  - (j) ATP stands for.
2.
  - (a) What are catalysts? Give a suitable example and explain it.
  - (b) Write the reaction when sulphate crystals are heated.
  - (c) In electrolysis of water, why is the amount of gas collected in one of the test tubes double of amount collected in the other? Name the gas and give reason.
  - (d) Specify the location of gastric glands and explain its function.
  - (e) How is the small intestine designed to absorb digested food?
  - (f) Write the function of trypsin and lipase.
  - (g) How are lungs designed in human beings to maximise the area for exchange of gases?
  - (h) Why do lungs always contain a residual volume of air?
  - (i) How is oxygen and  $\text{CO}_2$  transported in human beings?
3.
  - (a) Explain the main changes taken place in a chemical reaction with the help of example.
  - (b) What is redox reaction? Write substances oxidised and reduced and agents.
  - (c) What is a balanced chemical equation? Why should chemical equation be balanced? Give reason.
  - (d) Name the main organ of human digestive system in order they are involved in digestive food. Explain steps and process of digestion of carbohydrates and proteins take place in our body.

- (e) Write main events occurred during process of photosynthesis? How do desert plants synthesis their food?
- (f) What are sphincters? Explain their function and specify location.
- (g) What are the differences between aerobic and anaerobic respiration? Name same organism that uses the anaerobic mode of respiration?
- (h) What are the different ways in which glucose is oxidised to provide energy in various organisms?
- (i) How does exchange of gases takes place in human? Explain with help of neat diagram?

4. Balance the following reactions wherever required:-

