

# KV BSF RAISINGHNAR

PERIODIC TEST -FIRST

CLASS -X

SUB- SCIENCE

TIME -90 MINUTES

SESSION 2021-22

MM-40

NOTE:-NOTE: - All questions are compulsory. Draw suitable diagram where necessary. Solve each section in a separate answer sheet.

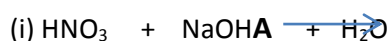
## SECTION- A (BIOLOGY)

1. Name the enzyme found in human saliva and writes its function. 1
2. Which artery carries deoxygenated blood? 1
3. Which receptor organ receive light stimulus? 1
4. Write any two functions of acid in our stomach? 2
5. Write any two differences between arteries and veins. 2
6. Draw the diagram of a neuron and label any two parts. 2
7. (a)Write any three differences between aerobic and anaerobic respiration. 3  
(b)define photosynthesis & write the equation to represent it. 2

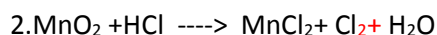
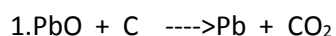
## SECTION-B (CHEMISTRY)

Q 1 . Which gas is liberated when calcium carbonate reacts with sulphuric acid. [1]

Q 2. Complete the following chemical reactions by identifying **A** and **B**. (2)



Q 3. Identify the substance oxidised and reduced in the following reactions--- (2)



Q 4. When Potassium iodide solution is added to lead (II) nitrate solution, a precipitate is formed. (3)

(i)What is the colour of the precipitate ?

(ii):Name the precipitated compound.

(iii) Write abalanced chemical equation for this reaction.

Q 5.(A) Define the following-

(5)

(i) Neutralisation reaction

(ii) Decomposition reaction

(B) Give reason for the following-

(i) Potato chips manufacturers fill the packet of chips with nitrogen gas.

(ii) Iron articles are shining when new, but get coated with a reddish brown powder, when left for some time.

### SECTION-C (PHYSICS)

1 Write the formula for magnification of mirror. [1]

2 The radius of curvature of a spherical mirror is 20 cm. what is its focal length? [1]

3 write the unit of power of a lens. [1]

4 write the uses of concave and convex mirror. [2]

5 Light enters from air to glass having refractive index 1.50 what is the speed of light in the glass?

The speed of light in vacuum is  $3 \times 10^8$  m/sec. [2]

6 Draw the ray diagram for convex lens when object is at  $2F_1$  i.e. at center of curvature. Also find the nature and size of image. [3]

7 A concave mirror produces three times magnified (enlarged) real image of an object placed at 10 cm in front of it. Where is the image located? [3]