

# KENDRIYA VIDYALAYA NDA PUNE

## PERIODIC TEST – I (2018-2019)

Subject – Science

Max Marks – 40

Class – X

Max Time – 90 Min

General instructions –

1. All questions are compulsory.
2. Question paper consists of two sections, **A & B**. Part **A** is **theory based** and part **B** is **practical based**.
3. Internal **choice in** question no. **6 & 12**.
4. Questions **1-2** are of **one mark** each. To be answered in **one sentence**.
5. Questions **3-7** are **two marks** each. To be answered in about **30 words**.
6. Questions **8-11** are **three marks** each. To be answered in about **50 words**.
7. Questions **12-13** are **five marks** each. To be answered in about **70 words**.
8. Questions **14-16** are **two marks** each. These are **practical based questions**.

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### Section – A

1. Give two functions of hydrochloric acid (HCl) in our stomach. (1)
2. Name the part of brain which helps to maintain body balance. (1)
3. Name the compound obtained from baking soda, which is used to remove permanent hardness of water. Give its formula. (2)
4. Explain the action of dil. Hydrochloric acid (HCl) on – Magnesium ribbon and Sodium hydroxide. (2)
5. Plaster of Paris should be stored in moisture proof container. Explain why? (2)
6. Explain why planets do not twinkle? (2)

Or

Describe dispersion of white light with diagram.

7. Draw neat and labelled diagram of nerve cell. (2)
8. Answer the following questions – (1+1+1)
  - a. What are the precautions required during burning of magnesium ribbon?
  - b. Define rancidity.
  - c. Give balanced chemical equation –  
$$\text{NaOH} + \text{H}_2\text{SO}_4 \rightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$$

9. Rohit wants to obtain an erect image on an object, using converging mirror of focal length 40 cm. (1/2+1/2+2)
- Specify the range of distance where the object should be placed.
  - Will the image be bigger or smaller than the object?
  - Draw the ray diagram for image formation in this case.
10. Answer the following questions – (2+1)
- Draw ray diagrams along with properties of image formed, when the object is between centre of curvature and principal focus of convex lens.
  - Describe absolute refractive index.
11. Identify the following hormones in plants and animals – (1/2X6=3)
- In plants –
- Promotes growth.
  - Promotes cell division.
  - Inhibits growth.
- In animals –
- Responsible for stress management.
  - Responsible for controlling sugar level in blood.
  - Controlling body growth.
12. Answer the following questions – (2+3)
- Differentiate between aerobic and anaerobic respiration.
  - Draw well labelled human circulatory system.
- Or**
- Differentiate arteries and veins.
  - Draw neat and labelled diagram of human digestive system.
13. Answer the following – (3+2)
- A student is unable to read on black board from last bench. Identify the eye defect and its possible causes. Also show its correction diagrammatically.
  - During sunrise and sunset sky appears to be reddish. Why? Explain with diagram.

### **Section – B**

14. When copper sulphate solution was stored in iron container, then after two days holes were observed in the container. Explain the reason for this. Also write the chemical reaction involved. (2)
15. Draw neat and labelled diagram of stomata. (2)
16. What is lateral displacement? Write the factors affecting it. (2)
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