

KENDRIYA VIDYALAYA NDA PUNE

PERIODIC TEST – I (2018-2019)

SUBJECT – SCIENCE

SET- 2

Max Marks – 40

Class – 9th

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 two questions.
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**.

Section – A

1. “Lysosomes are known as suicidal bags.” Justify this statement. (1)
2. Copper sulphate solution in water does not show tyndall effect but mixture of milk in water shows tyndall effect. Why? (1)
3. Define the following terms – (1+1)
 - a. Latent heat of fusion.
 - b. Boiling point.
4. Answer the following questions – (1+1)
 - a. What type of cloths should we wear in summer and why?
 - b. Convert into Celsius scale – 293 K & 573 K.
5. Draw a neat and labelled diagram of plant cell. (2)
6. List two differences in tabular form between displacement & distance. (2)
7. Draw neat and labelled diagram of nerve cell. (2)
8. Explain three characteristics of matter with examples. (3)

9. Answer the following questions – (1+1+1)
- a. Why plasma membrane is called selectively permeable membrane?
 - b. Give one similarity and one difference between mitochondria and chloroplast.
 - c. Write two differences between prokaryotic and eukaryotic cells.
10. How will you separate salt and ammonium chloride from their mixture? Explain with diagram. (3)
11. Answer the following questions – (2+1)
- a. A solution contains 40 g of salt in 320 g of water. Calculate the concentration in terms of mass by mass percentage of the solution.
 - b. Give two differences between elements and compounds.
12. Answer the following – (2+2+1)
- a. A bus decreases its speed from 80 km/h to 60 km/h in 5 sec. Find the acceleration of the bus.
 - b. Derive an expression for 2nd equation of motion.
 - c. Define uniform motion. Also draw the graph for uniform motion.
13. Give suitable answer – (2+1+1+1)
- a. Name the hardest connective tissue. Give its one function.
 - b. Differentiate between ligaments and tendon.
 - c. Give two characteristics of meristematic cells.
 - d. Name the permanent tissue responsible for conduction of water in plants.

Section – B

14. Mention two differences between onion peel cell and human cheek cell. (2)
15. Give two application of chromatography. (2)
16. Give two differences between striated, smooth and cardiac muscles. (2)
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