

HOLIDAY HOMEWORK
SUBJECT: SCIENCE
CLASS IX
Session 2022 - 23

1. Prepare a dictionary of your own which consists of words from class IX science text book

2. Make a poster which should include the following topics

- A. Global warming
- B. Ozone layer depletion
- C. Acid rain

(The following works should be done in A4 Sheets)

3. Draw a biochemical cycle of the following.

- A. Nitrogen cycle
- B. Oxygen cycle
- C. Carbon dioxide cycle
- D. Water cycle

4. Draw the following diagram. (Use a Color Pencil wherever necessary.)

- A. Plant cell
- B. Animal cell
- C. Sublimation
- D. Neuron

5. Plan to go to a place by vehicle with your parents. Take readings of odometer and speedometer after every 5 minutes till you reach your destination. Record these observations in tabular form; plot graphs between distance-time and speed time. State whether this motion is uniform or nonuniform motion.

6. Solve the attached question paper.

7. Solve the following puzzles.

I. Crossword Puzzle

Solve the following crossword puzzle with the help of given clues.

Down

- 1. Sites of protein synthesis.
- 2. Spindle formation during cell division.
- 7. Absence of membrane-bound organelles in
- 8. Gaseous exchange between the cells.
- 10. Kitchen of the cell.

Across

- 3. Passage of water through semipermeable membrane.
- 4. Functional segments of DNA.
- 5. Plant cell wall is composed of.
- 6. The fluid content inside the plasma membrane.
- 9. *Amoeba* acquires its food through this process.
- 11. Absence of cell membrane.
- 12. Amino acids, sugars, etc. in plant cells are stored in.
- 13. Smooth endoplasmic reticulum helps in manufacture of
- 14. Suicidal bag of the cell.
- 15. Powerhouse of the cell.

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