

- 1. Calculate the volume, mass and number of molecules of hydrogen liberated when 230g of sodium reacts with excess of water at S.T.P. (atomic mass of Na = 23U, O = 16U and H = 1U).
- 2. During winter season you wear woolen clothes to keep your body warm. How woolen clothes helps us keep our body warm.
- 3. Suresh can see the objects clearly which are beyond 3m. So he consulted the doctor and the doctor suggested him some lens.
 - a) What type of eye defect he has?
 - b) What kind of lens, doctor suggested him to overcome the eye defect?
 - c) What is the focal length of the lens?
- 4. Explain a chemical reaction to show the difference between Ethyl alchol and Acetic Acid?
- 5. We can't perform the experiment of green plants by keeping them in sunlight and do the respiratory experiment. Why?
- 6. Write the differences between homologus and analogous organs.?
- 7. What Questions do you ask the doctor to know the Contageous means to got HIV? Write them.
- 8. Write any four Contexts that you save the electrical Consumption at home.
- 9. When respiration takes when place, where will the energy goes from Glusoe. Padma wrote 'Lungs' and Veni wrote "Muscles". Who is correct? Why ?
- 10. The farmers of your locality are using chemical fertilizers. But suggested them to use natural fertilizers. Prepare a plamplent to explain the need of Bio fertilisers.
- 11. Draw a well labeled diagram of Nephron and explain the ultra-filteration
- 12. What happens when you keep a potted plant at your window ? Write your reasons.
- 13. Write the differences between Arteries and veins in a format depending upon the Capillary walls, valves, blood flow in capillary, blood pressure over the copillaries.
- 14. Draw a well labelled diagram of villi of small intestine and write its main function.
- 15. Prepare four sloguns on the need of protection of our environment
- 16. An electric installation of 100 lamps each drawing 0.2 amp current at 220 V supply. Find the cost of working of installation for a month of 30 days at 5 hours per day, if the energy used costs at Rs. 2 per unit.
- 17. State the properties and uses of Junction Transistor.
- 18. What is simple harmonic motion? Write down its characteristics?
- 19. Distinguish between orbit and orbital.
- 20. Compare the properties of α , β and g radiations.