

DELHI PUBLIC SCHOOL FIROZABAD

(UNDER THE AEGIS OF DELHI PUBLIC SCHOOL SOCIETY EAST OF KAILASH NEWDELHI)

(A SENIOR SECONDARY SCHOOL)





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JANUARY WORKSHEET NO.2

C1ass = 10	Subject - Science
Name:	_
Roll no:	Date: 18.01.22

- 1. What is meant by electric current? Name and define its SI unit. In conductor, electrons are flowing from B to A.
 - a. What is the direction of conventional current? Give justification for your answer.
 - b. A steady current of 1 ampere flows through a conductor. Calculate the number of electrons that flows through any section of the conductor in 1 second.
- 2. What is meant by electrical resistivity of a material? Write its S.I. unit.
- 3. State Ohm's law. Write the necessary conditions for its validity.
- 4. Define electric power. Express it in terms of potential difference V and resistance R.
 - a. An electrical fuse is rated at 2 A. What is meant by this statement?
 - b. An electric iron of 1 kW is operated at 220 V. Find which of the following fuses that respectively rated at 1 A,3 A and 5 A can be used in it.
- 5. State the difference between the wire used in the element of an electric heater and in a fuse wire.
- 6. An electric bulb of resistance 200 Ω draws a current of 1 A. Calculate the
 - a. power of the bulb and
 - b. the energy consumed by burning it for 5 h.
- 7. What are autosomes and sex chromosomes?
- 8. What is monohybrid cross give example.
- 9. Who is known as father of genetics?
- 10. Write the laws of genetics.
- 11. What are dominant genes?
- 12. Draw Punnett square to show dihybrid cross.
- 13. What is the scientific name of pea?
- 14. Write the names and draw structures of first three members of homologous series of alkenes.
- 15. Why there is a gradation in physical properties in a homologous series?
- 16. Define catenation.
- 17. What is the reason for formation of strong bonds by carbon?
- 18. How many covalent bonds are there in a molecule of pentane?
- 19. Differentiate between graphite and diamond on the basis of their structure.
- 20. Identify the functional group present in CH₃CHO.