

Delhi Public School, Jammu
Revision Sheet for Cycle Test I
Session 2018-19
Class- X

Subject-Science

(PHYSICS)

CHAPTER: 1.ELECTRICITY

2.MAGNETIC EFFECTS OF CURRENT

- Q1: Define charge and give three properties of charge.
- Q2: Name the devices which measures (a) current and (b) potential difference in a closed circuit.
- Q3: Give the electric symbol for (a) 3 cell battery (b) variable resistance and (c) Electric fuse.
- Q4: Define resistance and resistivity and give their SI units.
- Q5: Find equivalent resistance in series and parallel combination for three different resistors R_1 , R_2 and R_3 with neat circuit diagram.
- Q6: Give difference between magnetic fields lines produced due to bar magnet and solenoid/electromagnet.
- Q7: How solenoid is different from a coil. What type of core is used to make an electromagnet?
- Q8: (a) Define Fleming's 1) Left hand rule and 2) Right hand rule.
(b) Which rule is used in generators working principle?
(c) Which rule is known as Dynamo rule?
- Q9: What are the factors on which the intensity of the magnetic field due to (a) straight current carrying conductor (b) circular coil/loop varies?
- Q10: (a) Define electric motor and give its working principle.
(b) Give the function of following parts of an electric motor;
1) Split ring 2) Armature coil 3) Brushes.
(c) Give two uses/applications of 1) motor and 2) generator.

CHEMISTRY

CHAPTER: 1.CHEMICAL REACTIONS AND EQUATIONS

2.ACIDS, BASES AND SALTS

- State two examples each characterized by the following along with chemical equation.
 - Evolution of gas
 - Change in temperature
 - Formation of precipitate
- List two observations you notice when an iron nail is put inside copper sulphate solution .
- Oxidation and reduction take place simultaneously .Justify the statement with the help of example.
- Why should not curd and sour substances be kept in containers made of brass and copper?
- How is the concentration of Hydrogen ions affected when a solution of acid is diluted?
- Why does not dry HCl gas change the colour of dry litmus paper?
- Do basic solutions also have hydrogen ions ? If yes , then why are these basic ?
- Compounds like alcohol and glucose also contain hydrogen but are not characterized as acids. Describe an activity to prove it.

9. A white salt upon heating decomposes to give brown fumes and yellow residue is left behind. Name the salt and write the equation for decomposition reaction .

10. A green coloured hydrated metallic salt on heating loses its water of crystallization and gives a suffocating smell . Identify the salt and write the chemical equation .

(BIOLOGY)

CHAPTER: 1. LIFE PROCESSES

1. What is translocation in plants.
2. State the function of guard cells. What will happen to guard cells and Stomatal pore when water flows to guard cells?
3. Breathing cycle is rhythmic whereas exchange of gases is a continuous process. Justify this statement.
4. Draw well labeled diagram of human heart. Also explain the mechanism of double circulation in human beings.
5. Name two organisms that obtain food through parasitic nutrition strategy. How do fungi obtain their food?
6. Draw well labelled diagram of human excretory system.
7. List three characteristics of lungs which make them an efficient respiratory surface.
8.
 - i) List the functions of juice released by liver.
 - ii) Pancreas acts both as endocrine and exocrine gland. Justify giving reasons.
9. Mention the three kinds of cells present in blood. Write one function of each.
10.
 - i) Which is emulsification of Fat? Why is it necessary?
 - ii) What are villi? Mention their functions.