

DELHI PUBLIC SCHOOL JAMMU
HALF YEARLY EXAMINATION TERM-1
PERIODIC TEST-II,SESSION (2017-18)

ASSIGNMENT

CLASS-X

PHYSICS

SUB-SCIENCE

CHAPTERS: CURRENT ELECTRICITY, MAGNETIC EFFECTS, SOURCES OF ENERGY

- Q1. How do we express electric current?
Q2. What is an electric circuit?
Q3. What does a switch do?
Q4. What is a fuel ?
Q6 Name the gaseous fuel which has the highest calorific value ?
Q7 Name the major sources of energy that largely fulfils the growing demand of energy in our country?
Q8 State the ultimate source of energy of fossil fuels ?
Q9. a) What are magnets?
b) What are natural magnets?
c) What is the meaning of the word lodestone?
d) What is the origin of the word magnetism?
Q10. a) State the law of magnetic poles.
b) What is the surer test of magnetism?
c) What happens if we break a magnet into two pieces?
d) Is it possible to obtain isolated north and south poles?
Q11 a) What is magnetic line of force?
b) Can two magnetic lines of force intersect? Give reason.
c) Magnetic lines of force are endless. Comment.

CHEMISTRY

CHAPTERS: CHEMICAL REACTIONS AND EQUATIONS, ACIDS,BASES AND SALTS,
METALS AND NON METALS

- Q12. Give 5 examples each of physical and chemical changes that take place around us in our day to day life.
Q13. When a magnesium ribbon is burnt in air, what are the two observations that you make?
Q14 Write a balanced chemical equation to represent decomposition of lead nitrate on heating. What are brown fumes due to?
Q15. Make a list of at least 10 cations and 10 anions.
Q16. What are the symptoms of the problem of acidity? What possible remedy can be used at home?
Q17. Name three chemical indicators.
Q18. How does turmeric change its colour in an alkaline medium?
Q19 Write equations for the reaction of an acid with;
(a) a metal (b) a metal carbonate (c) a metal hydrogen carbonate (d) a base (e) a metallic oxide.
Q20. On keeping curd in a brass vessel for sometime, it becomes bitter. Why?
Q21. What happens when an acid is dissolved in water?
22. List five physical properties of metals and compare them with non-metals.
23. Why is gold widely used for making jewellery?
24. Name one metal commonly used for making cooking utensils. Give reason also.
25. What is the reactivity series of metals?
26. What is an electrovalent bond? Show the formation OF NaCl, Na₂O, MgO and MgCl₂ with the help of electrondot representation.
27. Why does a solution of sodium chloride conduct electricity which solid NaCl does not?
28. Write properties of ionic compounds.

BIOLOGY

CHAPTERS-LIFE PROCESS, CONTROL AND COORDINATION, HOW DO ORGANISMS REPRODUCE

- Q29 How exchange of gases take place in plants?
Q30 Differentiate between photosynthesis and respiration.
Q31 Explain the mechanism of breathing in human beings.
Q32 How does water rise in tall trees?
Q33 What is blood? What are the components of blood? Also write the function of each component.
Q34 What are the advantages of having very thin and highly branched capillaries for blood flow?
Q35 What are the different types of movements in plants? Describe them giving one example each.

- Q36 Write about some plant hormones and their function.**
- Q37 How the plant bends when it is kept in a room with only one open window?**
- Q38 What are endocrine glands? Show the position of different endocrine glands in our body.**
- Q39 Write any three characteristics of hormones.**
- Q40 What is the importance of pollination?**
- Q41 How do ovaries function both, as the reproductive organs as well as the endocrine glands?**
- Q42 Which method is for removal of unwanted pregnancies?**
- Q43 How do we know that two individuals belong to the same species?**
- Q44 What are the modes by which various organisms reproduce depend on?**
- Q45 What is advantage of growing plants asexually by the technique of tissue culture?**