

BRAIN INTERNATIONAL SCHOOL

TERM-II

CLASS-10

2018-19

SUB : - PHYSICS REVISION SHEET

CHAPTER 1 : CURRENT ELECTRICITY

- 1) An aluminium wire has radius 0.25 mm and length 75 m. If the resistance of wire is 10 ohm , calculate the resistivity of aluminium.
- 2) Two resistors of resistance 30 ohm and 60 ohm are connected in parallel in an electric circuit. Find ratio of current flowing through them.
- 3) An electric iron has a rating of 750 w, 220 v. Calculate current passing through it and its resistance when used.
- 4) Why are coils of electric toaster and electric iron made of an alloy rather than a pure metal.
- 5) An electric bulb is rated 230 V and 100W. When it is operated on 110 V. Find the power consumed.

- 10) How many 176 ohm resistors in parallel are required to carry 5 A on 220 V line ?

CHAPTER 2: LIGHT AND HUMAN EYE

- 11) Draw the ray diagram of image formation due to concave mirror for all positions of object.
- 12) A concave mirror has radius of curvature of 1m. Light from a distant star is incident on the mirror. What is the distance of image of star from the mirror.

- 13) what is the far point and near point of the human eye with normal eye.
- 14) Define refractive index of a medium.
- 15) What is the function of iris and pupil of the eye .
- 16) Define myopia and hypermetropia. Draw its ray diagram also.

CHAPTER 3: MAGNETISM

- 17)What precautions should be taken to avoid the overloading of domestic circuit.
- 18)Why do we use parallel circuit arrangement for domestic wiring.
- 19)Define a magnetic field of a magnet. What is its direction ?
- 20)Draw a diagram to show the magnetic field lines around a bar magnet. List any two properties of magnetic field lines.
- 21)What is a solenoid? Draw magnetic field lines due to a current carrying solenoid. Write three important features of the magnetic field obtained.

SOURCES OF ENERGY

- 22)What is a good source of energy
- 23) Why we are looking for the alternate source of energy?
- 24)What are the advantages of nuclear energy?
- 25)What are the limitations of the energy that can be obtained from the oceans ?
- 26)Explain how does a hydro power plant produce electricity ?
- 27)What is geothermal energy? Briefly describe the principle of harnessing this energy. What is its advantages ?
- 28)Draw a schematic diagram of biogas plant. Write the steps involved in the production of biogas.
- 29)What are the main advantages of solar energy ?

