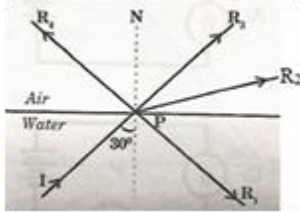
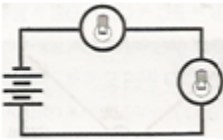

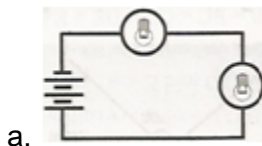


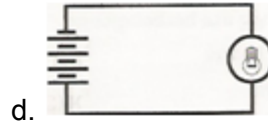
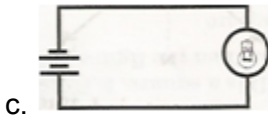
GSO SAMPLE PAPER CLASS 8

- The earth's magnetic field cannot be because of iron in its core because :
 - Iron is not in its pure state
 - Rotation of earth would nullify it
 - Iron is a non magnetic substance
 - The temperature is above its curie temperature
- A beam of light travelling with a speed of 2.7×10^8 m/sec in water slows down to 1.8×10^8 m/sec upon entering another liquid .If the refractive index of water w.r.t. air is $4/3$,then what will be the R.I of the liquid with respect to air ?
 - 5
 - $3/4$
 - $1/2$
 - 2
- When a coil is placed in a changing magnetic field :
 - Current decrease to zero
 - Current increases infinitely
 - Current is induced
 - Magnetic field decrease in size
- Study the figure given here. How will the incident rays of a light 'I' moves beyond the point 'P'?
 

- R1
- R2
- R3
- R4

- If a voltage of 9 V is applied across two conductors 'P' and 'Q' of the same size , the current in 'P' is 0.3 A and in 'Q' is 3 A respectively. What are the resistances of 'P' and 'Q' respectively?
 - 3 ohm and 3 ohm
 - 3 ohm and 0.3 ohm
 - 3 ohm and 30 ohm
 - 30 ohm and 3 ohm
- In which of the following cases will the bulb(s) glow the brightness?
 


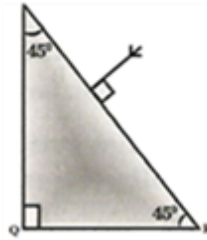




7. A 1.5 V battery, which is connected to a coil is replaced by a 4.5 V battery. The magnetic field around the coil will :

- a. .Decreases
- b. Increases
- c. Remain the same
- d. Not be affected

8. A ray of light strikes the surface of a prism (critical angle 40°) as shown in the figure. How will the ray emerge and from which face



- a. Undergo multiple reflections inside continuously.
- b. Emerge from PQ at an angle of 45°
- c. Emerge from QR normal to the surface
- d. Emerge from PR normal to the surface

9. In which of the following case does magnetism produce electricity
- a. Electric bell
 - b. Water pump
 - c. Fan
 - d. Generator

10. Latika observed her grandmother adding lots of salt on unripe mangoes to prepare pickle. Her grandmother also added excess of oil in the pickle jar. What could be the reason for it. ?

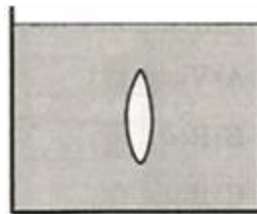
- a. Salt prevents growth of microorganism by retaining moisture in the food item and oil provides an environment in which microorganism cannot grow.
- b. Salt prevents growth of microorganism by forcing them to lose water by osmosis and oil provides an environment in which microorganisms cannot grow.
- c. Salt prevents growth of microorganism by retaining moisture in the food item and oil prevents their growth by forcing out water from them by osmosis.
- d. Salt prevents growth of microorganism by forcing them to lose water by osmosis and oil prevents their growth by retaining Moisture in the food item.

11. The wire of fuse should have:

- a. Melting point less than other wire
- b. More thickness than other wires
- c. A vey high resistance
- d. High strength and low ductility

12. Which of the following is NOT true regarding 'gas gaints'?

- a. The densities of these are much lower than that of earth.
 - b. They are mainly made of gases
 - c. Neptune is a gas giant
 - d. Some of the gas giants are smaller than terrestrial planets.
13. Which of the following is NOT true regarding magnetism?
- a. Circular or ring magnets have two poles
 - b. Magnetic force decreases rapidly with increase in distance
 - c. Magnetic force depends on the mass of the magnet
 - d. Domains are found in both magnets and magnetic substances.
14. At which place, the earth's magnetic field be the stronger ?
- a. At south pole
 - b. At the equator
 - c. At the tropic cancer
 - d. At any point on the longitude
15. Convex lens made of glass of refractive index 1.75 is dipped into water ($\mu = 1.33$) as shown here. It will behave as ;



- a. An invisible object
- b. A convergent lens
- c. A divergent lens
- d. A glass lens