Q1. "A lens can form a magnified erect image as well as magnified inverted image of an object placed in front of it." State the nature of this lens and draw ray diagrams to justify the above statement. Mark the positions of O, F and 2F in the diagram.   **3 Marks**

Q2. In the given circuit determine the value of: **3 Marks**
   i. Total resistance of the circuit
   ii. Current flowing through the
      ammeter:
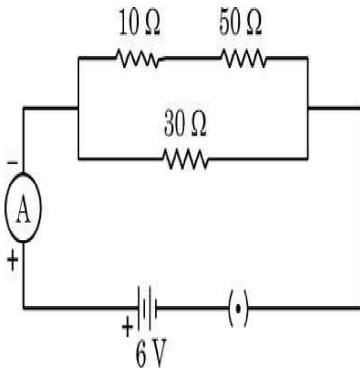
Q3. A as narrow beam, PQ of white light is passing through a glass prism ABC shown in the diagram.   **3 Marks**
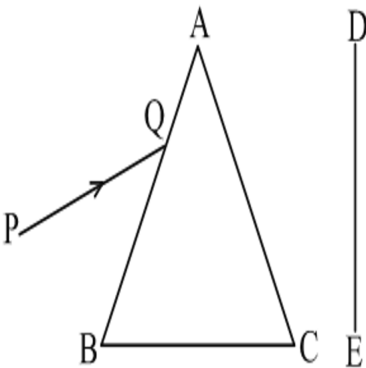

Draw a ray diagram to show the emergent beam as it falls on the screen DE. Also write the phenomenon involved and its cause. Using the second law of refraction state which colour of light must have the highest value of refractive index amongst seven visible colours of light.

Q4. Two lamps, one rated 60 W at 220 V and the other 40 W at 220 V, are connected in parallel to the electric supply at 220 V.   **3 Marks**
   a. Draw a circuit diagram to show the connections.
   b. Calculate the current drawn from the electric supply.
   c. Calculate the total energy consumed by the two lamps together when they operate for one hour.

Q5. Magnetic field lines are shown in the given diagram. A student makes a statement that the magnetic field at 'A' is stronger than at 'B'. Justify this statement. Also redraw the diagram and mark the direction of magnetic field lines.   **3 Marks**
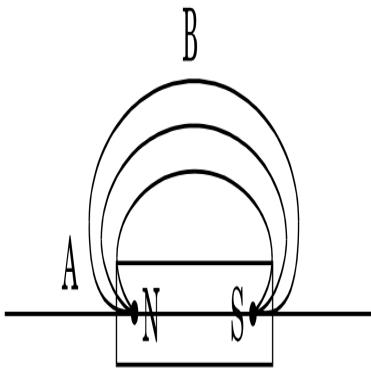
Q6. A student wants to project the image of a candle flame on a screen 90 cm in front of a mirror by keeping **3 Marks**
the flame at a distance of 15 cm from its pole.

   a. Suggest the type of mirror he should use.

   b. Determine the linear magnification in this case.

   c. Find the distance between the object and its image.

   d. Draw ray diagram to show the image formation in this case.

Q7. a. Three resistors R_1, R_2 and R_3 are connected in parallel and the combination is connected to a battery, an **3 Marks**
ammeter, a voltmeter and a key. Draw suitable circuit diagram to show the arrangement of these circuit
components along with the direction of current flowing.

   b. Calculate the equivalent resistance of the following network:
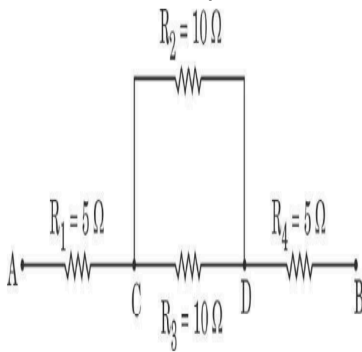
Q8. A narrow beam PQ of white light is passing through a glass prism ABC as shown in the diagram. **3 Marks**

Dispersion of White Light
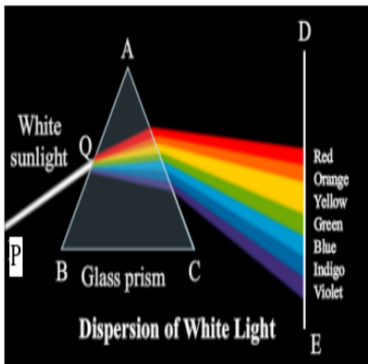
Trace it on your answer sheet and show the path of the emergent beam as observed on the screen DE.

   i. Write the name and cause of the phenomenon observed.

   ii. Where else in nature is this phenomenon observed?

   iii. Based on this observation, state the conclusion which can be drawn about the constituents of
white light.

Q9. a. Draw the pattern of magnetic field lines due to a magnetic field through and around a current carrying **3 Marks**
circular loop.

   b. Name and state the rule to find out the direction of magnetic field inside and around the loop.
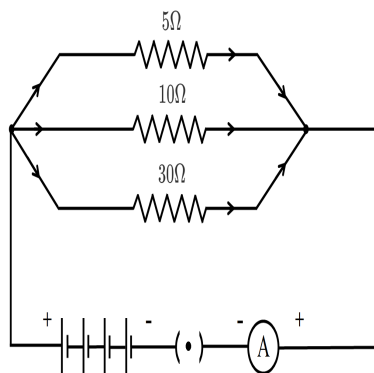
Q10. Name two oxidising agents that are used for the conversion of alcohols to acids. Distinguish between ethanol and ethanoic acid on the basis of, **3 Marks**

   i. Litmus test.

  ii. Reaction with sodium hydrogen carbonate.

Q11. For the circuit shown in the diagram given below: **3 Marks**

Calculate:

  a. The value of current through each resistor.

  b. The total current in the circuit.

  c. The total effective resistance of the circuit.

Q12. Study the diagram given below and answer the questions that follow: **3 Marks**
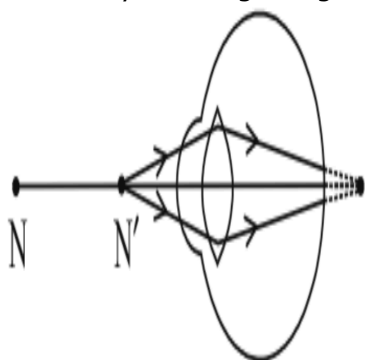
   i. Name the defect of vision represented in the diagram. Give reason for your answer.

  ii. List two causes of this defect.

 iii. With the help of a diagram show how this defect of vision is corrected.

Q13. An object of height 10cm is placed 25cm away from the optical centre of a converging lens of focal length 15cm. Calculate the image-distance and height of the image formed. **3 Marks**

Q14. List the factors on which the resistance of a uniform cylindrical conductor of a given material depends. **3 Marks**

  b. The resistance of a wire of 0.01cm radius is 10Ω. If the resistivity of the wire is $50 \times 10^{-8} \Omega m$ find the length of this wire.

Q15. Study the following circuit and find: **3 Marks**
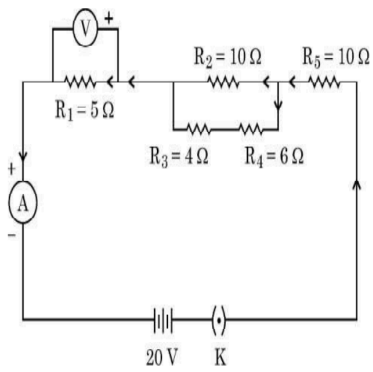
i. Effective resistance of the circuit
ii. Current drawn from the battery
iii. Potential difference across the 5Ω resistor

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