

4. What do you conclude from the given diagram?

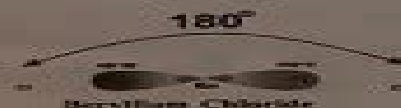


5. Draw the diagram of a lens which will be recommended by an eye doctor to a long-sighted patient.

- Ⓐ Which one of the following decreases in a group from top to bottom?

- A) Atomic size B) Metallic nature
C) Electropositivity D) Electronegativity

7. Which type of hybridisation takes place in 'Be' in the given diagram?



8. Write two uses of ethanol in day to day life.

SECTION - II

Note: D. Answer ALL the questions.

2) Each question carries 2 marks.

$$3 \times 2 = 6 \text{ m}$$

9. In a classroom four students measured focal length of a given lens experimentally. They got the values as 12.1 cm, 12.2 cm, 12.05 cm, 12.3 cm respectively. They discussed reasons for getting different values. Explain the reasons.

10. Pose any two questions to understand the difference between valency and valency electrons.

11. Explain, why bonding angle (H-O-H) in water is $104^\circ 31'$ instead of $109^\circ 28'$.

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