



A collage of various analytical chemistry and data visualization elements. It includes a lightbulb with a brain-like filament, a 3D pie chart, a flowchart with arrows, laboratory glassware like test tubes and flasks, and a smartphone displaying data. The background is white with a pattern of black circles and diamonds.

EPEA516 ANALYTICAL SKILLS II

Dr. Harish Mittu
Associate Professor

Learning Outcomes



After this lecture, you will be able to

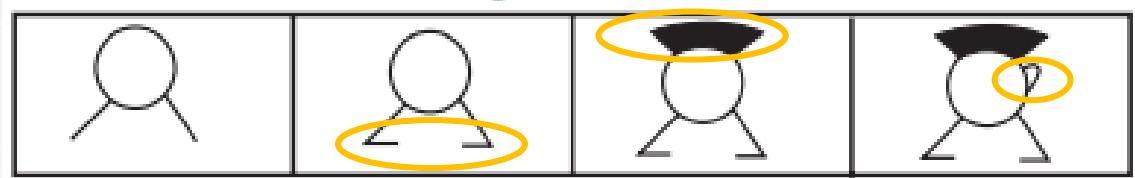
- develop understanding about the basics of series of figures,
- analyze different types of series of figures,
- solve various problems relating to series of figures.

Series of Figures

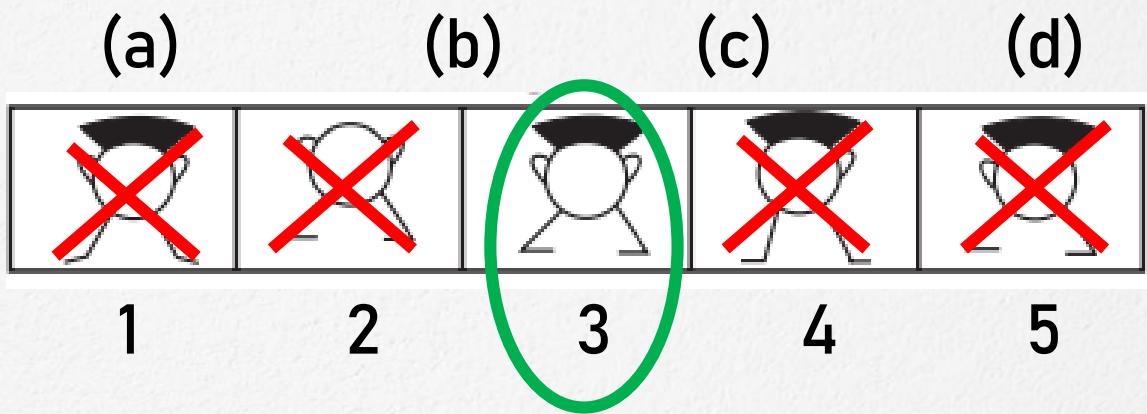
- Continuation - Question Figure
- Step by Step Change - Every Figure
- Step by Step Change - Sequence
- Series of Figures - Four/Five Problem

Problem

- Problem Figure



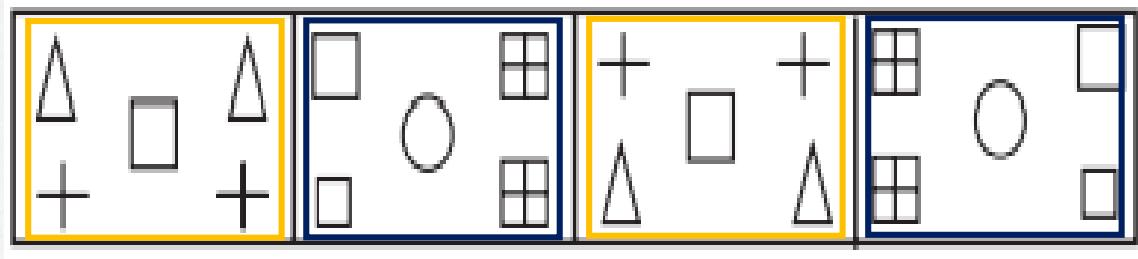
- Answer Figure



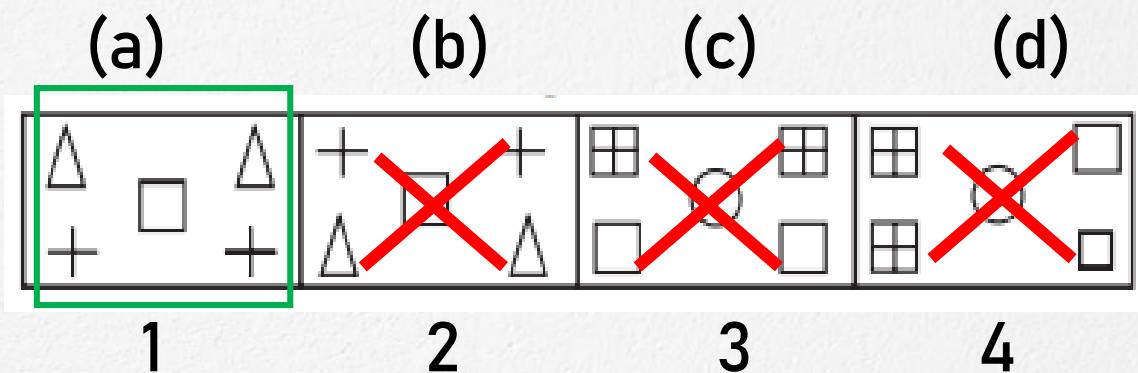
- On every step one new figure is added
- Next figure of the series - (3) - one additional ear.

Problem

- Problem Figure

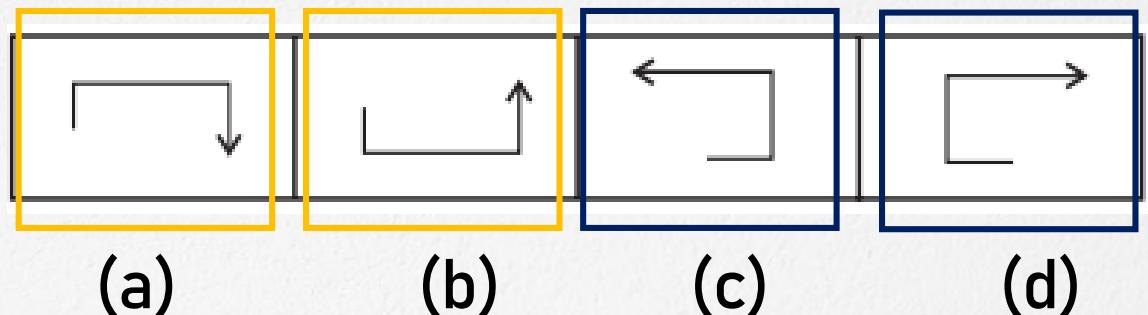


- Answer Figure

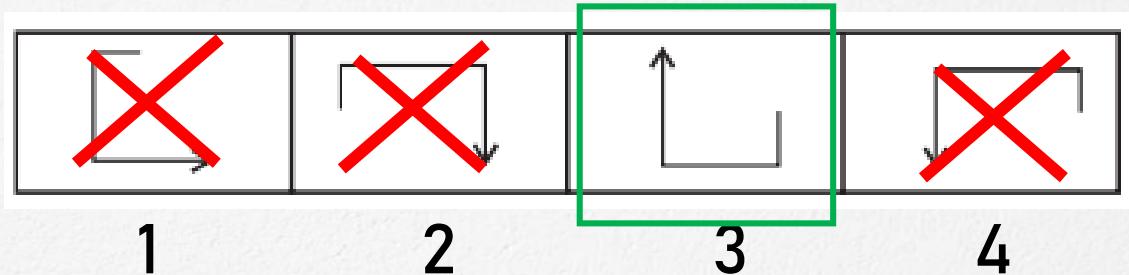


Problem

- Problem Figure

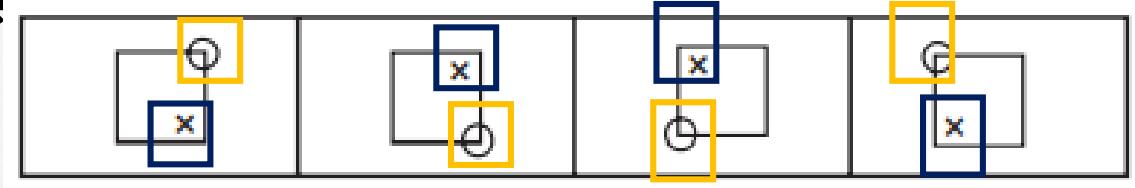


- Answer Figure



Problem

- Problem Figure



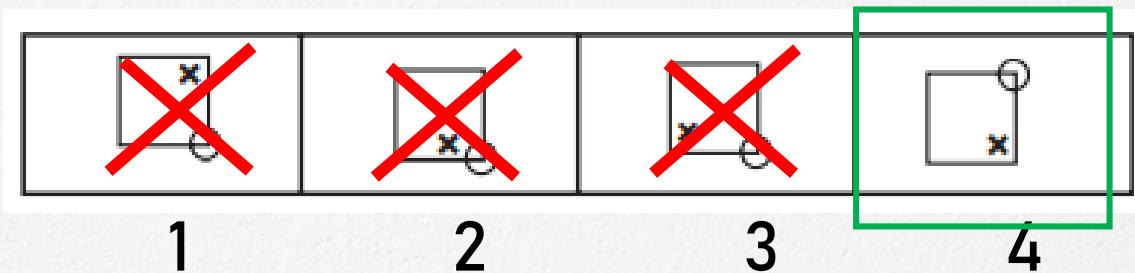
(a)

(b)

(c)

(d)

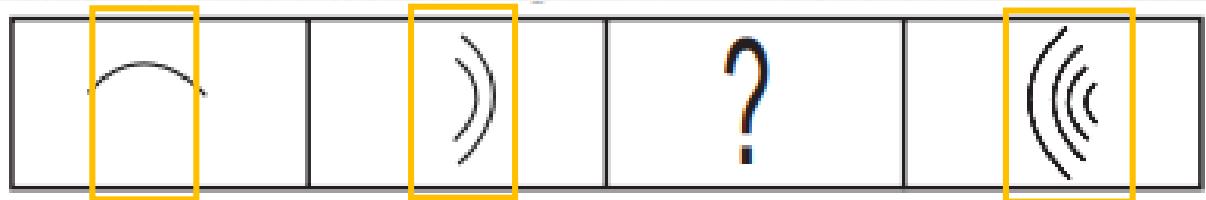
- Answer Figure



The circle at the corner of the square moves clock wise, where as the cross inside the square moves anti clock wise.

Problem

- Problem Figure



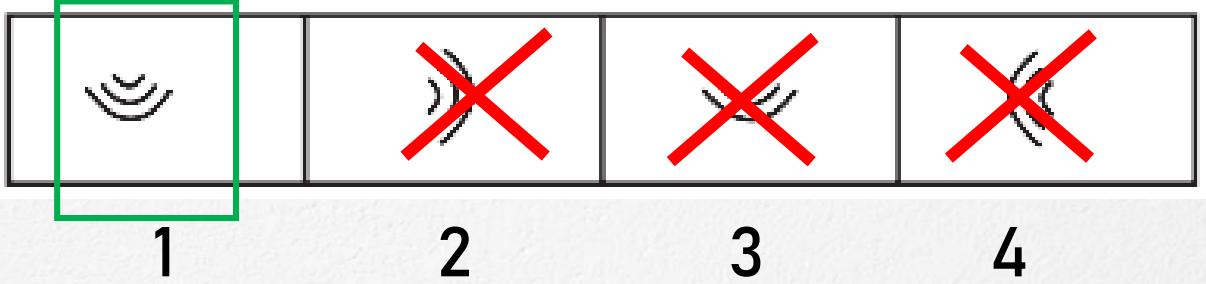
(a)

(b)

(c)

(d)

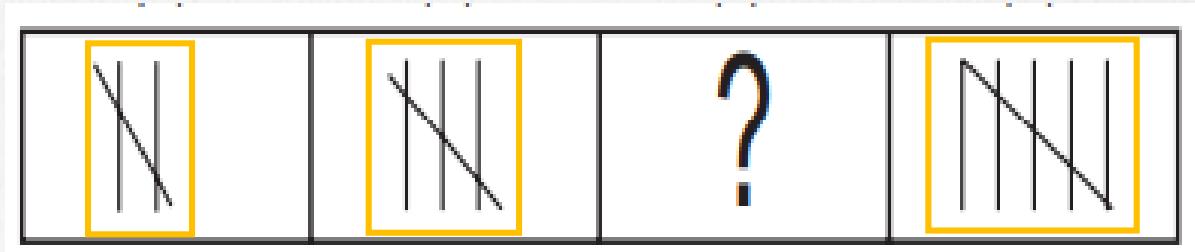
- Answer Figure



Every time the curved are moves clock wise and there is addition of one more curve.

Problem

- Problem Figure



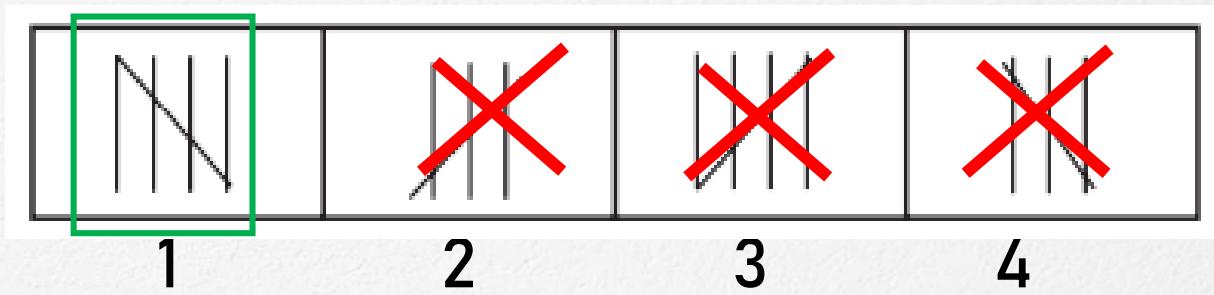
(a)

(b)

(c)

(d)

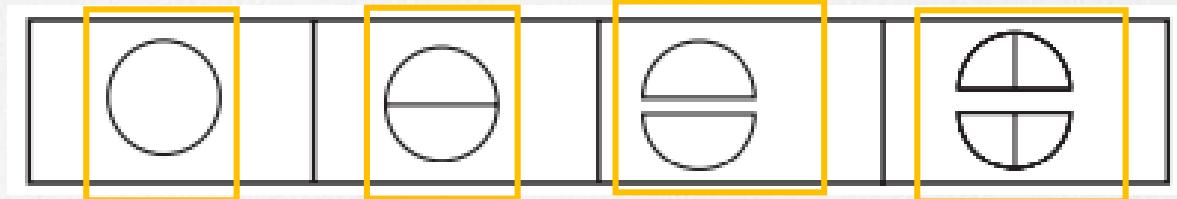
- Answer Figure



Vertical line increases by one and diagonal line cuts it every time from left corner to right corner diagonally.

Problem

- Problem Figure



- Answer Figure

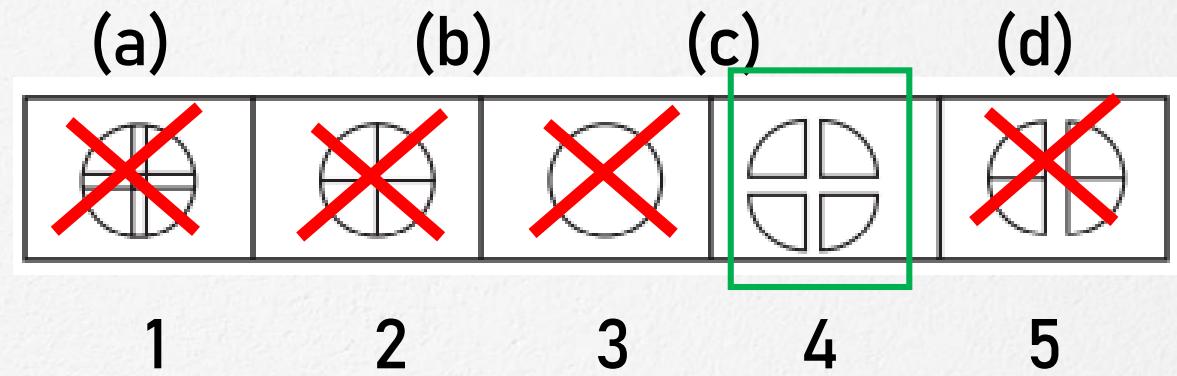
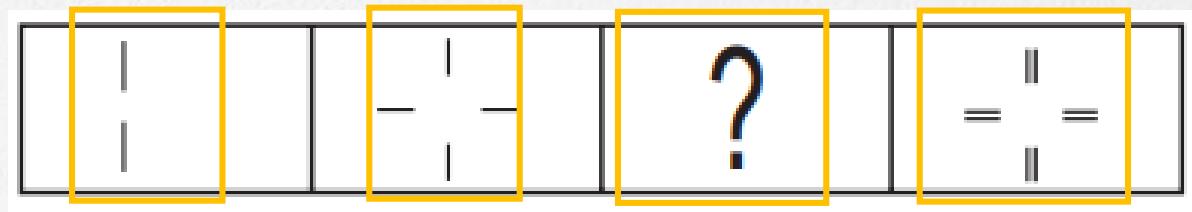


Figure gets a dividing mark or line than in the very next step it is separated.

Problem

- Problem Figure



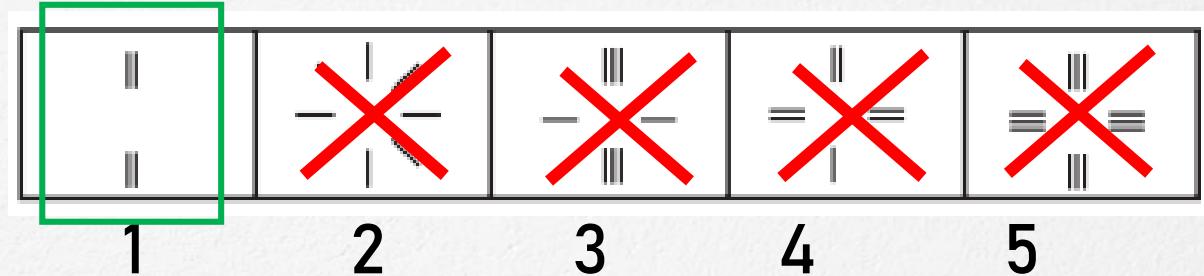
(a)

(b)

(c)

(d)

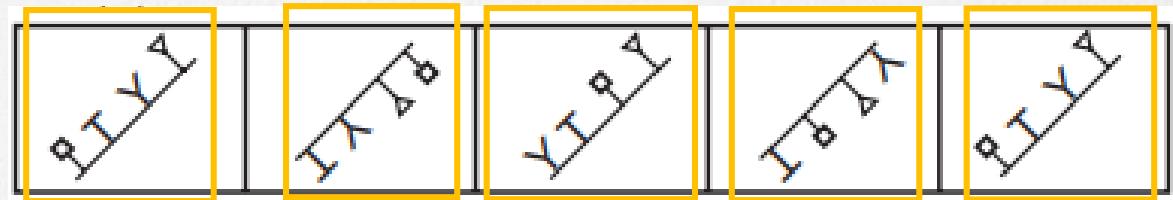
- Answer Figure



First two figures are doubled in the next two figures, but the position remains same.

Problem

- Problem Figure



(a)

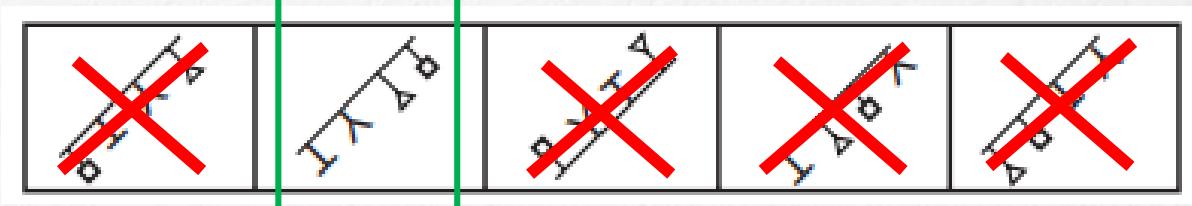
(b)

(c)

(d)

(e)

- Answer Figure



1

2

3

4

5

Problem

- Problem Figure



(a)

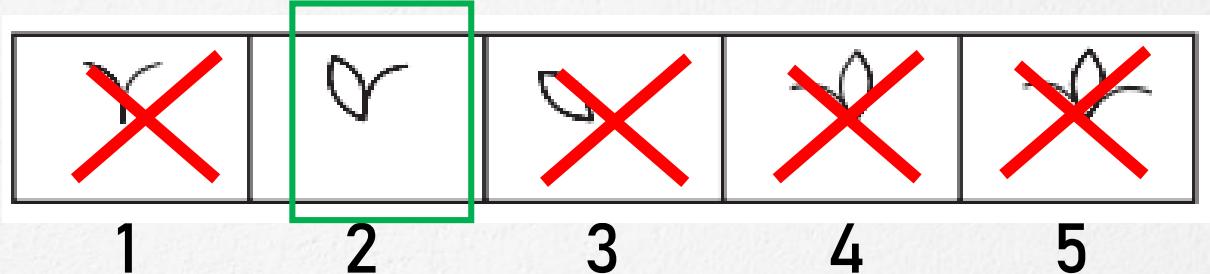
(b)

(c)

(d)

(e)

- Answer Figure



The petals move 45 degree clockwise and every step a half petals added to the previous figure and the addition done first right side than left side.

Conclusion

- Series of Figures
 - Continuation – Question Figure
 - Step by Step Change – Every Figure
 - Sequence
 - Four/Five Problem

Summary

- Non-Verbal Reasoning
 - Series of Figures

That's all for now...