



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, a smartphone, and a computer keyboard. The background features a dark blue gradient with white confetti-like shapes.

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 classification,
- solve various problems relating to classification.

Classification

- Select the items
- Group
- Common Qualities
- Different - Strangers

Problem

- Choose the word which is least like the other words in the group.
- Giraffe
- Lion
- Horse
- Zebra
- All animals belong to wild group except Horse.

Problem

- Choose the word which is least like the other words in the group.
- Cardamom
- Chalk
- Rubber
- Tea
- Chalk is obtained from Stone, others from trees.

Problem

- Choose the word which is least like the other words in the group.
- Bus Stand
- Hangar
- Platform
- Park
- All are stations or Halting places except park.

Problem

- Choose the word which is least like the other words in the group.
- Bow
- Deck
- **Quay**
- Stern
- All are parts of a ship except Quay (a platform where goods and passengers are loaded on and off boats).

Problem

- Choose the word which is least like the other words in the group.
- Botany
- Chemistry
- Geography
- Physics
- All are the types of science subject except Geography.

Problem

- Choose the odd-one out.
- 53
- 85
- 125
- 147
- 125 is the only perfect cube; rest are random numbers.

Problem

- Choose the odd-one out.
- 64
- 169
- 484
- 315
- 315 is the odd one out as the rest all are squares of different numbers

Problem

- Choose the odd-one out.
- 3781
- 7359
- 9175
- 9317
- 3781 is the odd one out as other numbers contain only odd digits.

Problem

- Choose the odd-one out.
- 17
- 15
- 13
- 11
- All numbers are prime numbers except 15.

Problem

- Choose the odd-one out.
- 65
- 126
- 28
- 361
- 28 is the only number with all even digits.

Problem

- Choose the odd one out.
- Up
- Down
- Below
- Small
- Small is adjective whereas rest are prepositions.

Problem

- Choose the odd one out.
- Hydrogen
- Oxygen
- Iodine
- Nitrogen
- Iodine is liquid whereas rest are gases.

Problem

- Choose the odd one out.
- Assortment
- Assemble
- Collection
- **Cluster**
- All denotes collection of selected items except Cluster.

Problem

- Choose the odd one out.
- Rice
- Mustard
- Barley
- Pea
- Rice is kharif Crop while rest are Rabi crops.

Problem

- Choose the odd one out.
- Crab
- Fish
- Octopus
- Scorpion
- All lives in water except Scorpion.

Problem

- Choose the odd one out.
- Big
- Huge
- Small
- Trivial
- Trivial describes something which is of little value or importance whereas rest of words describe the physical size of objects.

Problem

- Choose the odd one out.
- Cat
- Rabbit
- Mongoose
- Squirrel
- All are rodents or rat family except cat.

Problem

- Choose the odd one out.
- Cousin
- Uncle
- Nephew
- Brother
- All are relation based on parent's brother and sister except brother .

Problem

- Choose the odd one out.
- Arc
- **Diagonal**
- Radius
- Tangent
- All are the parts of a circle except diagonal.

Problem

- Choose the odd one out.
- Crater
- Epicentre
- Focus
- Richter Scale
- All are related with earthquake, except crater which is a circular depression in the ground caused by volcanic activity.

Conclusion

- Classification
 - Odd One Out
 - Items
 - Group
 - Common Qualities

Summary

- Verbal Reasoning
 - Classification

That's all for now...