

PRAWAS 2.0

FOR IIT - JEE 2023



Lecture - 01
Mole Concept





TABLE OF CONTENT



O₁ Mole

PYQ and QUESTION

03

04



सोच हमेशा ऐसी रखो जो मुझे आता है उसे मैं कर लूंगा और जो मुझे नही आता उसे मैं सीख लूंगा।







Teaching Experience



- 18 years of teaching experience
- Worked at H.O.D of Chemistry
- Ex.: Senior Faculty of Chemistry

Bansal Classes (Kota)

Career Point (Kota)

Narayana Delhi

Mentored TEE Holding Ranks: (7) 19 27





Our Study Plan



- Attend all the Lectures
- Solve all the DPP's
- Be regular & avoid Backlogs //
- Do not skip Tests
- Clear your Doubts & Concept By Sanvesh dixit
- Do Periodic Revision of CSD & Self Study
- Find Time for your Hobbies



Roadmap to JEE 2023

Pw

- Class
- Qsd (FUTURE DEE) QUESTION)

 Guest by Soovesh dixit
- LECTURE NOTES
- · Csd -> Revision
- · P.YQ (class me hi all P. Y.β.)
- Tsd (TEST OF FUTURE JEE QUESTION)
- RIVISION 1 Csd 1 question series per chapter







- Book: (NCERT CHEMISTRY)
- Reference Material: Class Notes (Csd)
- Things to Solve: 1. DPP
 - 2. Qsd and Tsd
 - 3. PW Modules (Periodic HW)
 - 4. PYQ





Anything that has mass and occupied space (volume)





- A select matter in given example
 - Air → N2,02, He etc
 - (b) Hz- gas -
 - (c) light
 - (d) A & B both /



Select the correct example of matter





Sound

Josec

Ans batao



Heat

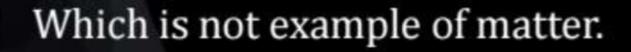


Book



None of these









Sound



В

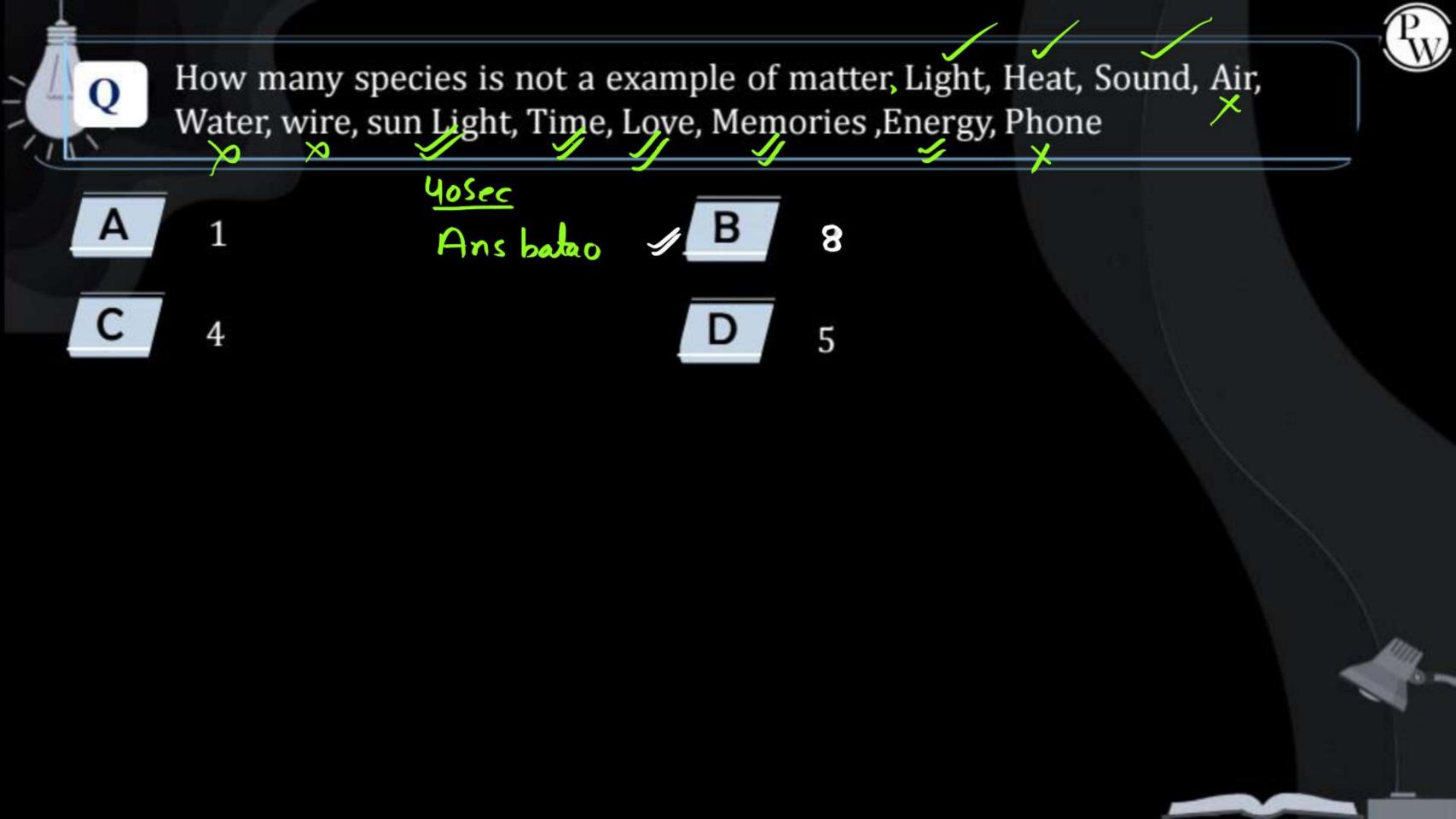
Pen 🗸



Air 1 mass



Water /





Match the following



List-1

A Phone

Book

C Memories

D Heat

List_2

P- Matter \rightarrow A

Q- Non-matter \rightarrow C



CLASSIFICATION MATTER

- Mixture
- pure substance 2







Matter

Mixture

9f more than one type of Molecules present in matter

Ex-) Air-) (N2,02, CO2, Ar, etc Ex-) Common salt sol? - (H20+ Nau)

Pure substance

- Matter form by only one type of atom or molecule





$$\epsilon_x \rightarrow$$





Which of the following particles are the example of the mixture

Α

Air

В

Common salt in water solution

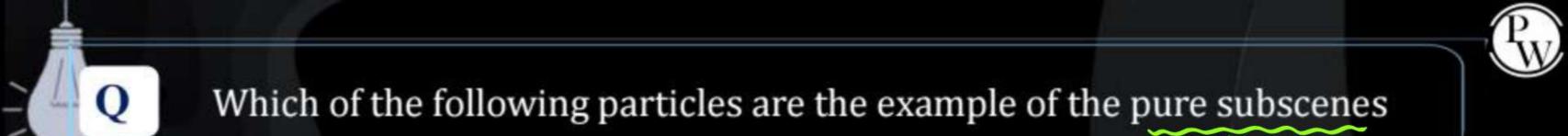
С

Maggi

(maggit Hotele)



All



Α

 CO_2

Losec

В

H₂ gas

1 molecules 1 atom

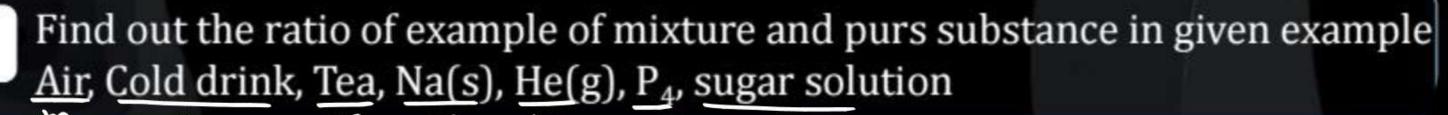
C

Na(s)



All





A

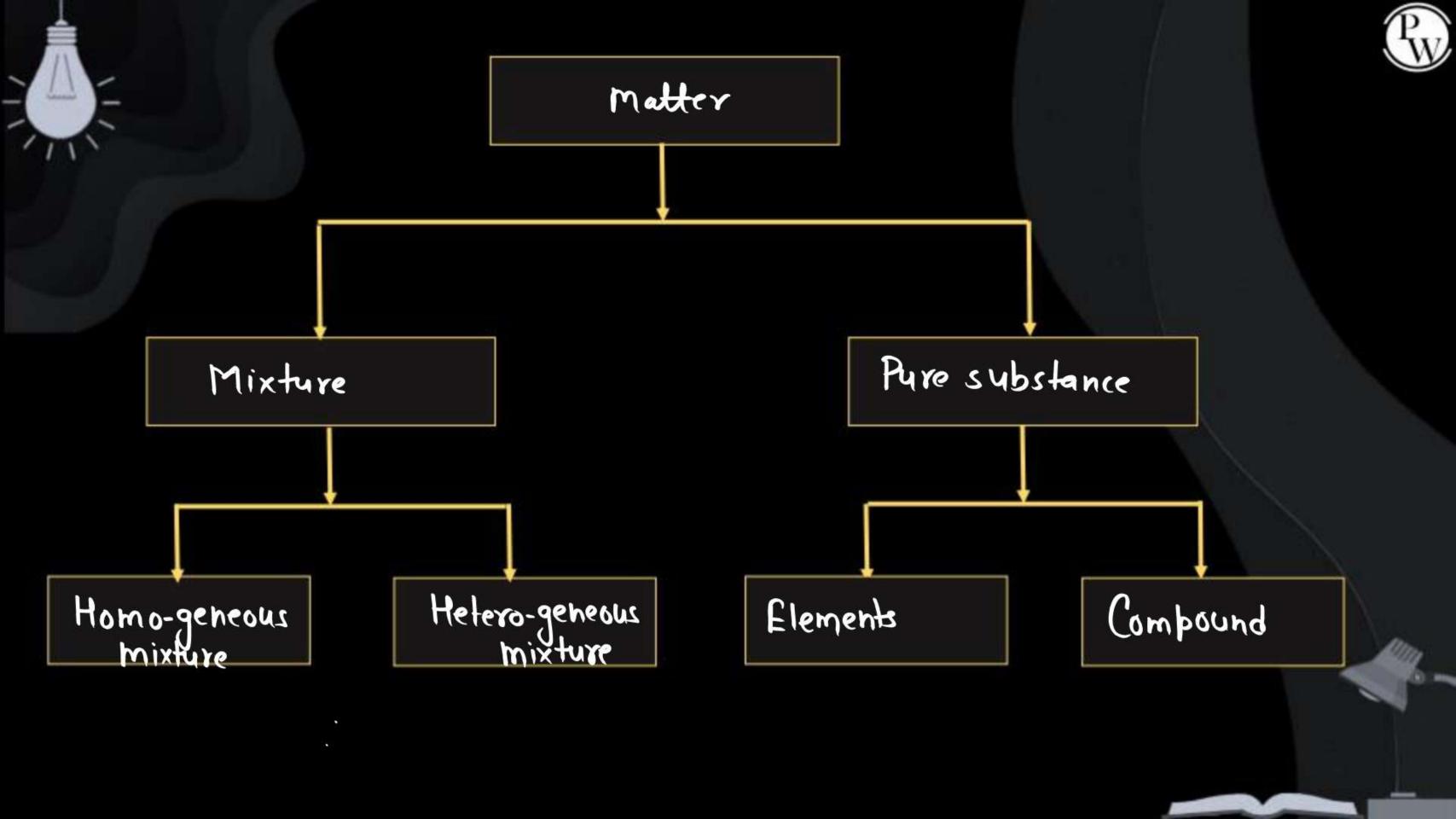
Bosec

 $\frac{3}{4}$

C

Mixture _ 4 pure Subs. 3

 $\frac{3}{2}$







Elements

- only one type of atom present in pure substance (matter)

$$\rightarrow O_3 \rightarrow (0-0-0)$$

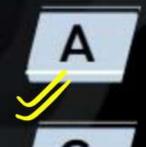
Compound

-> pure substance form by more than one type of different atom



Which of the following particles are the example of the element?





$$P_4 (P-P-P-P)$$

H20 - (om)



Air - mixture



CO2- (comp.)



Homogeneous

- différent molecule distributed uniformally in solution

Ex- Augast rolution
Ex- Air



Hetero-geneous

- does not form uniformally distributed solution

Ex+ oil in water

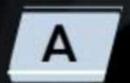
Ex- petrol in water

Ex-1 rand in water



Select Homogeneous Mixture in given example.





Petrol in water



Oil in water



Sugar solution

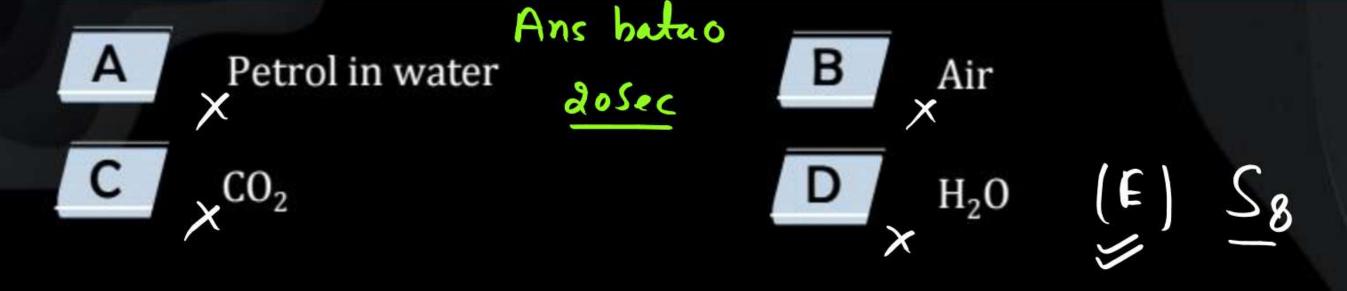


a, c both are correct





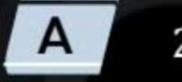
Select the correct example of elements.







How many particles are the example of compound. H_2O , CO_2 , Air, Sugar Solution, Na(s), $H_2(g)$



C

В

```
Pure substance

Elements (ambound

(1-atom) (2-atom)
```



Match the following

List-I

- Element 5 (a)
- Compound → ✓ (b)
- Mixture P. 9 (c)

Mains - Osd

List-II

- (p) Air
- Future Quest! by S.D. (q) Sugar Solution
- $(r) H_20$
- (s) O_2 gas

A
$$(a - s), (b - r), (c - p, q)$$

$$(a - r), (b - s), (c - p, q)$$

$$(a - s, r), (b - r, q), (c - p)$$

$$(a - s), (b - r, q), (c - p)$$





