



Topics to be covered



- Add ons this year
- 2 History of Chemistry & Applications of Chemistry
- 3 Matter & its Classification
- 4 Atoms, Molecules & Ions



There is one big flaw in your Preparation that's name is Backlog? What do we say to Backlog?





Add ons this year?





Tricks to make your calculation fast

- Amazing ppt work for better visualization & retention according to NCERT
- Many questions will be discussed in class which are from lines of NEW NCERT
- PYQ of NEET, AIIMS PYQ, JEE MAINS & JEE Advance & NCERT Exemplar in class
- MAGARMACH practice questions (MPQ) daily & solution in Recorded form
- Class after chapter completion for NEET advance Class 2 NEE Toowon a
- Chapter summary in Recorded form
- Special focus on Assertion & Reason as well as Statement wise questions
- Daily Test start after 2 chapters
- Revision of Last Class in next Class



Rules to Attend Class



- 1. Always sit in a peaceful environment with headphone and be ready with your copy and pen.
- 2. Never ever attend a class from in between or don't join a live class in the middle of the chapter.
- 3. Make sure to revise the last class before attending the next class & always complete your home work.
- 4. Never ever engage in chat whether live or recorded on the topic which is not being discussed in current class as by doing so u can be blocked by the admin team or your subscription can be cancelled.



Rules to Attend Class



- Try to make maximum notes during the class if something is left then u can use the notes pdf after the class to complete the remaining class.
- Always ask your doubts in doubt section to get answer from faculty. Before asking any doubt please check whether same doubt has been asked by someone or not.
- 7. It does not matter whatever situation you are in NEVER EVER CREATE A BACKLOG BECAUSE IT MAY RESULT IN BACKLOG FOR YOUR DREAM COLLEGE.





my -



History Of Chemistry

- 1) Philosphen's stone
 - (Paras) -> which will twen metals into Gold
- 10 treommes = spil go reiscil
- 3 Chemistery -> Rasayan Shartero



The Story of Chemistry: From Magic to Molecules

Once upon a time, humans looked at the world and wondered—

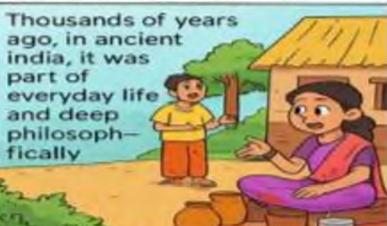


Their curiosity led to science, and one special branch of science called **Chemistry** the study of substances, their properties, how they combine, react and and change,

They believed in magical thing like the Philosopher's Stone (Paras) that could turn metals into gold, and the Elixir of Life to make people immortal.

Philosopher's Elixir of Life

But chemistry wasn't always taught in labs or books.



They called it Rasayan Shastra, and it included everything from preparing pertumes and glass to dyes and healing potions.

mass-produced glazed pottery using chemical processes like heating and mixing mate-



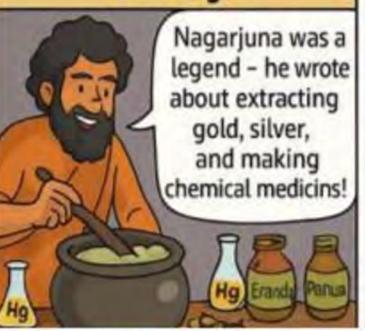


History Of Chemistry

- (4) Nagarijuna > exteraction of Grold, Silver & Chemical medicines
- 2 Chaknapani -> discovered Soap => mustand oil + alkalis CaCoz + Mahua seedy

18th Century. + Estanda vil

Alchemy, Metals & Soap -Making



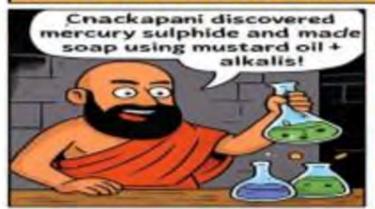
Secret Inks, Fireworks & Nanotech?!

gunpowder.

Texts talked about Even bhasma had nanosurgical tools, and particles. colourfut inks! Yup. ancient nanotech



ANCIENT INDIAN CHEMISTRY -SOAPS, SCIENCE, AND STUNNING WALLS





WALLS THAT WON'T FADE

Alanta & Ellora's glowing paintings prove ancient India's next-level chemistry. People even made soaps from castor oil and Mahua!

BRIHAT SAMHITA = SCIENCE TEXTBOOK

Brihat Samhita explained how to make wall glue using boiled fruits, seeds how nano-particles.



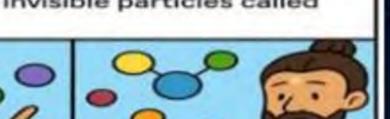
@ Wall glue - made from boiled formits, seeds & banks @

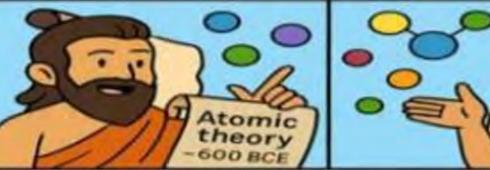


5) Achanaga Kannad Matter -> 8 mall particles parmanu

6 Bhasm -> Nano-particles

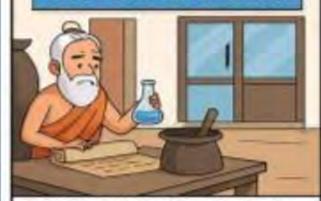
Centuries before Dalton, Acharya Kanad said: matter is made of invisible particles called Paramanu!





He described them as eternal, moving, and combining in pairs/triplets to form everything around us.

WESTERN MEDICINE



After the 20th century, Avvrivedabased chemistry (latrochemistry)) started declining due to mod

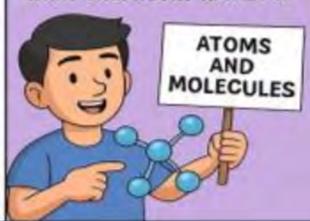


it took India nearly 100–150 years to adopt Western chemical practices. Indigenous mehods faded.

ENTER MODER CHEMISTRY



WHAT CHEMISTRY REALLY IS







According to Charaka Samhita, extreme reduction in metal size was part of:

- Atomic fusion
- B Ayurvedic cooling
- Nanotechnology
- Alkaline testing



Which ancient civilization is associated with early chemical processes like baking bricks and pottery?

- A Egyptian
- B Roman
- Harappan
- Chinese



The preparation of soaps in 18th century India included:

- CaCO₃ only
- B Ash and acid
- Oil of Eranda and seeds of Mahua
- Lemon and soda



Applications Of Chemistry



1) Fertilizers > NPK elements Nitorogen, Phosphonous, Potassium

for ex: Unea (NH2-2-NH2)

ammonium sulphate (NHu) SOH

Sodium niterate (NaNO3)

Sodium sulphate Nay SO4





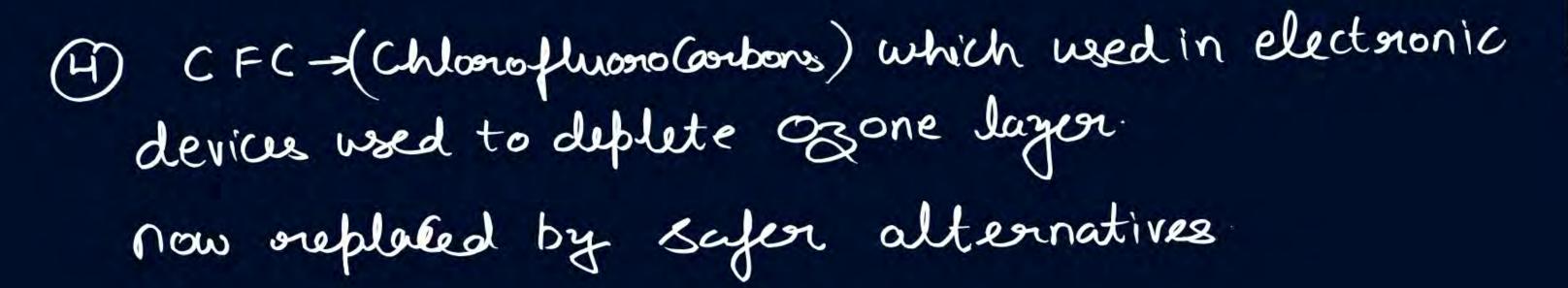








- 3 Medicine ->
- (a) Cis-Platin & Taxol -> toreatment of Concer. Cis-[Pt (NH3)3Cls]
- (6) AZT (Azidothymidine) -> toreatment of AIDS







Assertion (A): Chemistry has contributed significantly to cancer therapy.

Reason (R): Cisplatin and Taxol are drugs used in the treatment of cancer

Both A and R are true, and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A

C. A is true, but R is false

D. A is false, but R is true



Column A

A. Cisplatin

B. AZT (Azidothymidine)

C. Safer alternatives to CFCs

D. Conducting polymers

Column B

i. Used in AIDS therapy

ii. Used in cancer therapy

iii. Environmental protection

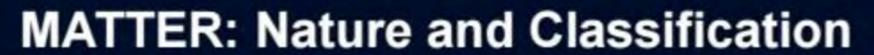
iv. Industrial application in electronics



Which of the following is a chemical fertilizer?

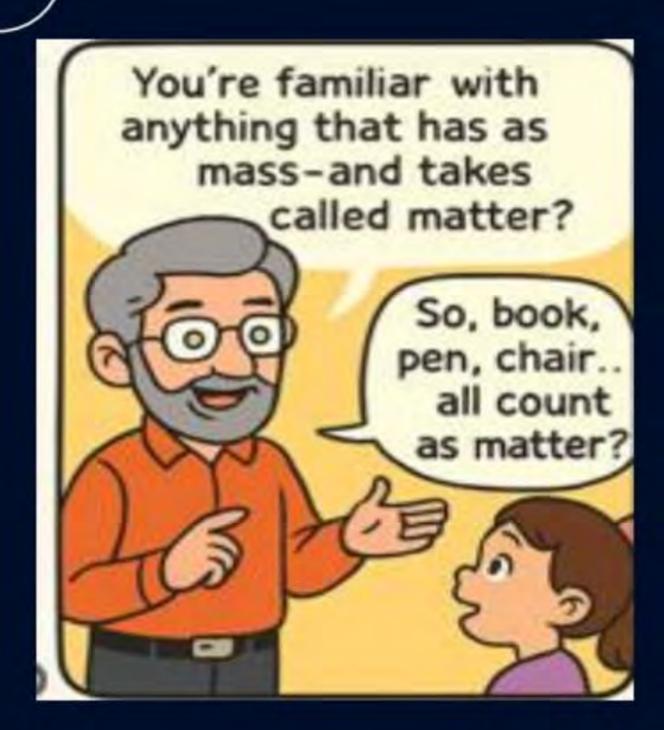
- (A) Urea
- **B** Sodium Nitrate
- Ammonium sulphate
- All of these







Anything has mass & occupies space is matter



Dil

Dimag

Soch

Mann

Haddi

Yaad

Paisa (Money)



Which is not a type of matter?

- A Dil (heart)
- B Dimag (Brain)
- C Haddi (Bone)
- Mann



Statement-I: Matter can neither be created nor be destroyed.

Statement-II: In all physical and chemical changes, the total mass of the reactions is never equal to the total mass of the products..

- A Both statement-I and statement-II are correct
- Both statement-I and statement-II are incorrect $2 \frac{1}{2} \frac{$
- Statement-I is correct and statement-II is incorrect
- Statement-I is incorrect and statement-II is correct



Physical Classification of Matter



Solid, Liquid & Gras



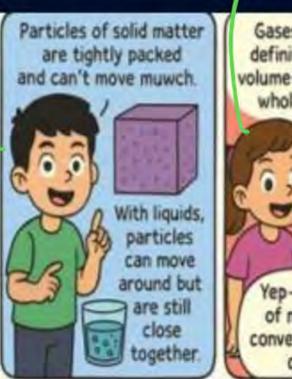
Difference between Solid, Liquid & Gases

Rookie

Solid -> particles don't move in terme solide.

Sterongest Force of attraction, Particles closest fixed shape & fixed volume, incompressible.

Liquids > particles more, F.O.A. weak Volume fixed, shape not fixed.



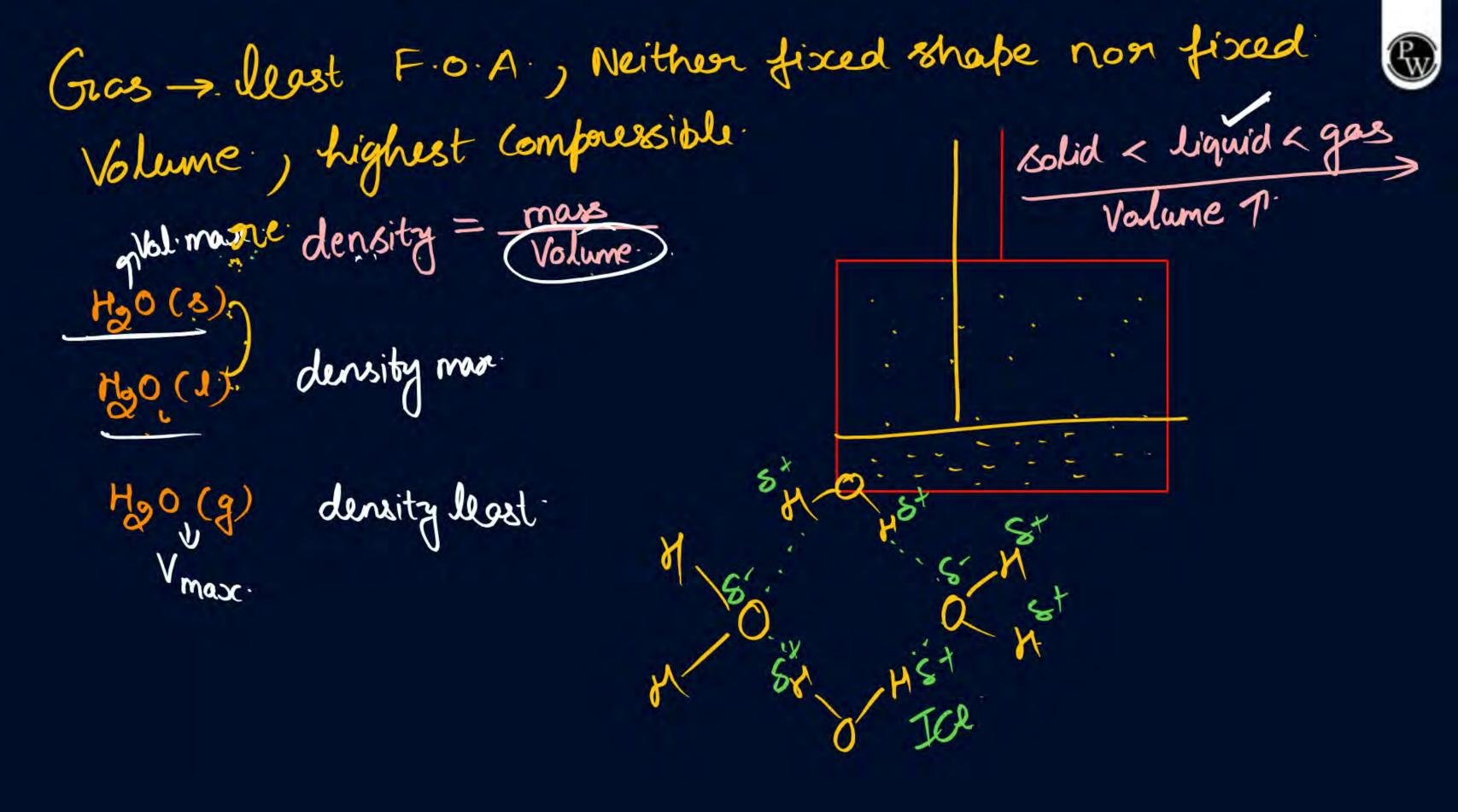




Poskie.









5:02 - Patler (thin) Mota (thick) action of granity.



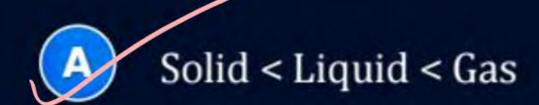


The ability of gases to occupy the entire volume of the container is due to:

- A Strong intermolecular forces
- B High density
- Negligible intermolecular forces
- Definite shape



Which of the following is the correct order of particle movement from least to greatest?



Solid & liquid & Gras

- B Gas < Liquid < Solid
- C Liquid < Solid < Gas
- Solid < Gas < Liquid



Which of the following changes involves a physical change of state? Must appropriate answers (5) 2 wax(1) Must appropriate answers Burning of candle was (6) 2 wax (1)

- Freezing of water House House
- Rusting of iron $Fe(s) \longrightarrow Fe_2O_3 \times I_2O(5)$ one of these
- None of these













Tricks for fast Calculations



Multiplication - 2 digit

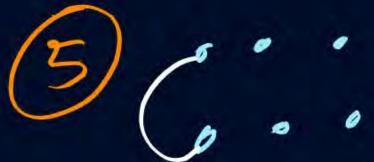
$$\frac{x}{a}$$

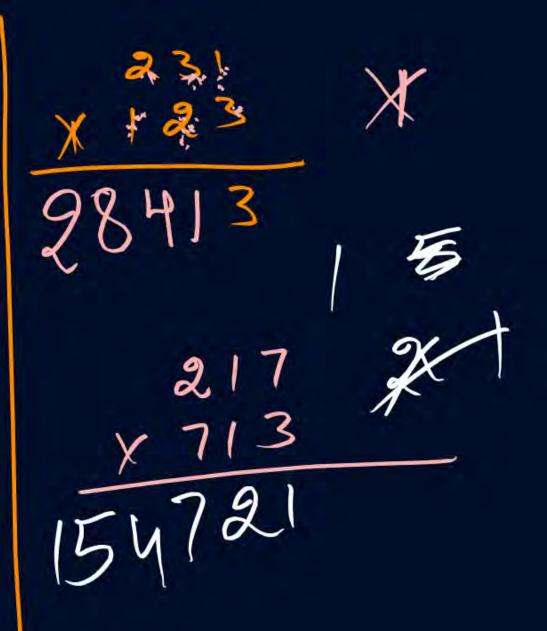












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Magarmach Practice Questions (MPQ)







The decline of latrochemistry in India began with:

- A Introduction of European alchemy
- B Rise of Buddhist traditions
- Adoption of modern Western medicine
- British banning Ayurveda



AZT is used for treatment of

- (A) Cancer
- B AIDS
- C Headache
- None of these



Which is a type of matter?

- A Pen
- B Paper
- C Ink
- All of these



Which of the following is not a characteristic of solids?

- A Definite shape
- B Definite volume
- C High compressibility
- Strong intermolecular forces



Which statement is correct about gases?

- A Gases have fixed shape but not fixed volume
- Gases are incompressible
- Gases have negligible intermolecular forces
- Gases have highest density among the three states



Which state of matter exhibits both viscosity and fluidity?

- A Solid
- B Liquid
- Gas
- All of these



Statement 1: On heating, a solid usually changes to a liquid and the liquid on further heating changes to the gaseous state.

Statement 2: Arrangement of constituent particles is different in solid, liquid and gaseous state.

- A Both statement-I and statement-II are correct
- Both statement-I and statement-II are incorrect
- Statement-I is correct and statement-II is incorrect
- Statement-I is incorrect and statement-II is correct



Which of the following is not a correct match?

- A Solid Least compressible
- B Liquid Definite shape
- Gas No definite volume
- Plasma Ionized gas



Which property is not exhibited by liquids?

- A Surface tension
- B Definite shape
- C Viscosity
- Ability to flow



Which among the following states of matter has the highest kinetic energy of particles at room temperature?

- (A) Solid
- B Liquid
- Gas
- Plasma



