



Topics to be covered



- Revision of Last Class
- 2 Redox reactions
- Oxidation no and its rules
- MEDICS Test no 1
- Magarmach Practice Questions (MPQ) & Home work from modules



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 Magarmach Practice Questions.
- 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.

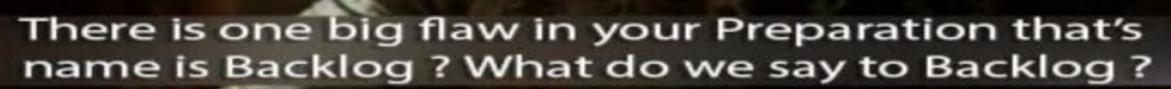


Rules to Attend Class



- 5. 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.
- 6. 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.









MEDICS

Mastery

Checks your grasp over NEET-level concepts

Evaluation

Judging both knowledge and test-smartness

Decision Making

Testing your speed + accuracy under pressure

Intuition

Some answers need gut + logic - can you spot the trick?

Concepts

It's all about strong basics no shortcuts here

Strategy

The **MEDICS** test – built for those who heal, hustle, and hope.



Quiestions on Basic Concepts of Chemistry

- 1. Which of the following is not a physical change?
 - (A) Bolling of water
 - (B) Melting of ice
- (12) Rusting of iron Fe -> Fegus X 130
 - (D) Dissolving sugar in water
- Which of the following is a diatomic molecule?
- (A) Carbon dioxide
- NH2 (C) Ammonia Nitorogen No
 - 5. Which unit is used to express concentration?
 - (A) Gram
- (B) Mole
- (C) Molarity
 - (D) Atomic massiunit
- Avogadro's number is the number of particles in

Questions on Basics Concepts of Chemistry

- 1.1 mole contains
- (A) 6.022 × 10⁻²³ particles
 - (B) 1.66 × 10+23 particles
 - (C) 3.01 × 10+23 particles
- (D) 1.00 × 10⁺²³ particles
- 2. The molecular mass of H₅O is
 - (A) 16 u
- (B) 18 u
- (C) 20 u (D) 22 u

Na

- 7. Which is the lightest subatomic particle?
 - (A) Proton (B) Neutron

 - (e) Electron (D) Bootton None
- 8. Which of the following has the same number of protons and electrons?
 - Sodium atom No. 31
- (A) 1 g of a a substance () Imal of west on (c) Chioride io... (A) Hydrogen molecule H

g find Volume of NH3 formed if 6 L Hg react with excess of No? BL -> = X6 = 4L (h) 2 L

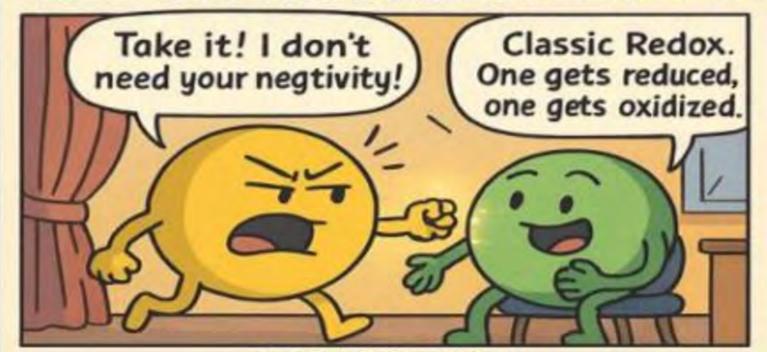
Q'Which has highest no of atoms. mom 1902 & 1903 02 atoms = 1 × NA × 2 = 16 NA $--\frac{2}{18} \times N_{p} \times 3 = \frac{1}{16} N_{h}.$

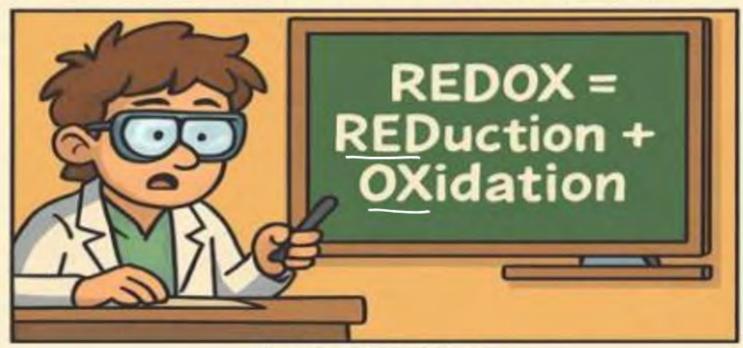
Both have some

(a) Not enough info.



REDOX ROOMMATES:: EK ELECTRON KI KAHANI

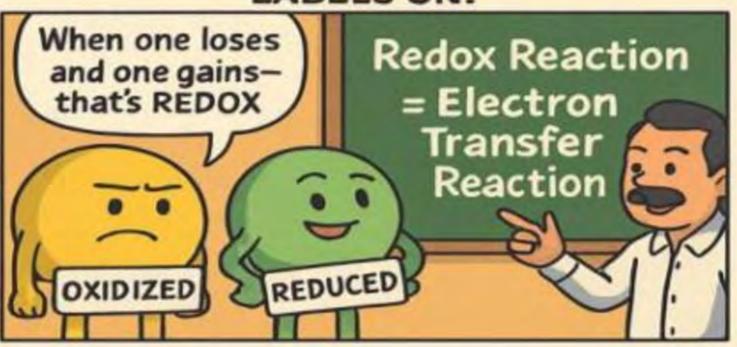


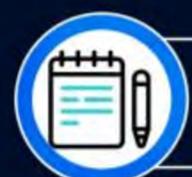


LABELS ON!



LABELS ON!





Oxidation

1) addition of 2 2 loss of 12

2Ca + Og -> 2Ca O

1 oxidation

 $2NH_3 \xrightarrow{\Delta} 1N_0(g) + 3H_0(g)$ $oxid^{1}$









R

Na
$$\rightarrow$$
 Na \rightarrow N



Reduction

1 addition of ty & loss of 2.





gaya hoon.. literally.

kharab hai - l attrac

Oxidation =

emotional damage

electron

damage

Pw

5 + 1ē -> 5

$$CL + 1\bar{e} \rightarrow CL$$

$$O + 2\bar{e} \rightarrow O$$

$$P + 3\bar{e} \rightarrow P$$

$$Na + 1\bar{e} \rightarrow Na$$

$$Ca + 2\bar{e} \rightarrow Ca$$

Mg +
$$i\bar{e} \rightarrow Mg$$

Mg + $i\bar{e} \rightarrow Mg$

All + $i\bar{e} \rightarrow Al$



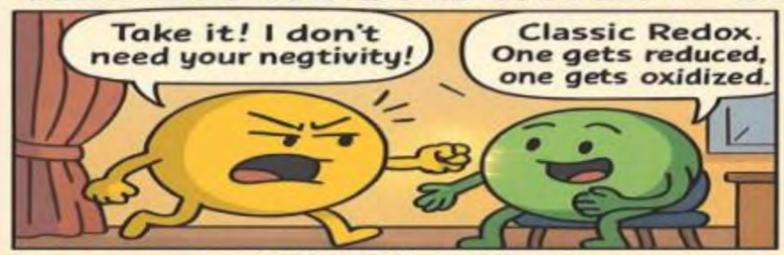
Number Line System

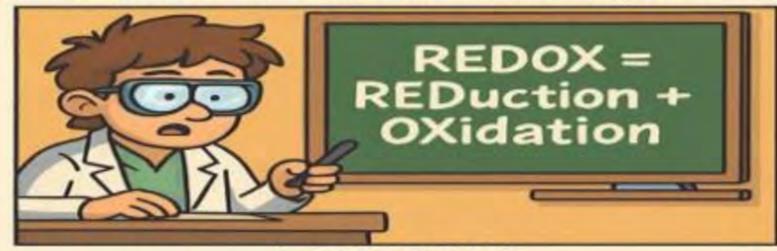






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Oxidation Number (O·N·)

Change develop after bereaking of bonds.





Some ions and molecule will help to calculate oxidation number.

Species	Total charge on species = oxidation No.
X (halide ion) F-, Cl-, Br-, I-	-1
	-1
CN^{-} (cyanide ion) CN^{-} CO_3^{2-} CO_3^{2-} SO_4^{2-} SO_4^{2-}	-2
SO42- SO4	-2
(NOS)-1 (NOS)	-1
NO2- NO	-1
PO43- PO43-	-3
NO ₃ - No ₃ -	-1
52- 52-	-2
H ₂ O H ₃ C	0
NH ₃	0
NO ⁺¹ (attached to metal) NO ⁺¹	+1
co ()	0



Rules to find Oxidation Number



CaBona Fr



1 ion Charge = O.N.

3 all elements elementary stt.

6.N = 3000.

for ext + He Ho, No, So (La, Na etc.

Alloys -> metals o.N = Berro Na(Hg), Zn(Hg) Halogens > 17th grap. -> Combined stt. -> -1
F)(U, Br, I, At.

except interhalogen Compds -> More E.N. >-1

(4) Hydrongen Combined stt.

Non-metals metals.

मुठ, मप

5.N=-1 Litt, Gtg

3) Fet grip metals in Combined stt. >010:= +1
Link K. R. & Ces, For

Tind grip metals

(Be, Mg) Co, Ser, Ba, Ra

北江

(5) Oxygen = C.S. = 1 O.N. = -2 Jan ex : Ca6) Ca564 HNO3 -> oxides -> -2 Cao, Myo, Ligo Hooz, Nago 2 - e- sabisco reode > supenoxide > - 1 Kog Rboz

6.N. at all atoms

6.N. In moderate = 0.

Legin ion = Charge

1 More E.N. > (-)ve

hers E.N. -> (+) Ve Periodic table

LtoR E.NT

H2 J = 0 g bottom X = 0 g

(sog (Caesium superoxide)

$$1 + 2x = 0$$

 $2x = -1$
 $x = -\frac{1}{2}$

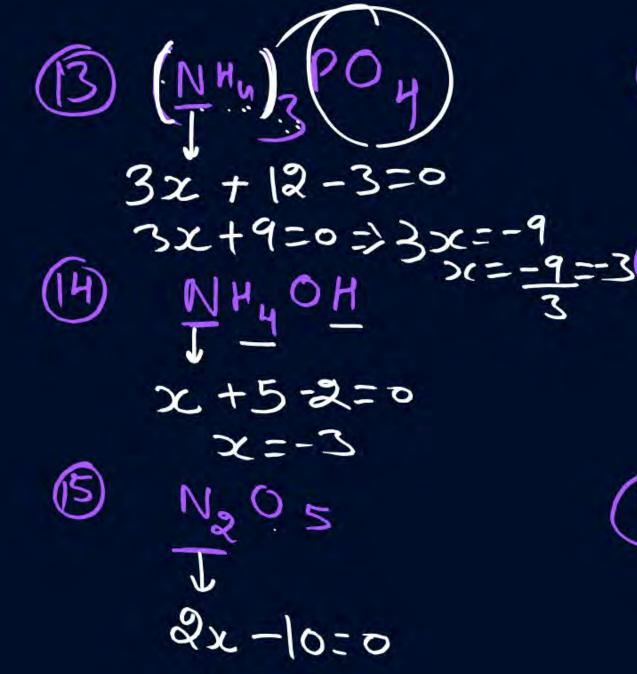
Q Find oxid no of underlined atom in following:

- 2 N2 H4 2x+4=0
- $\begin{array}{c}
 3 \\
 N \\
 N \\
 0 \\
 2 \\
 X 4 = 0 \\
 X = +4.
 \end{array}$

- H PO4 7-8=-3
- - (6) $(3704)^{2}$ x - 8 = -2x = 8 - 2 = +6

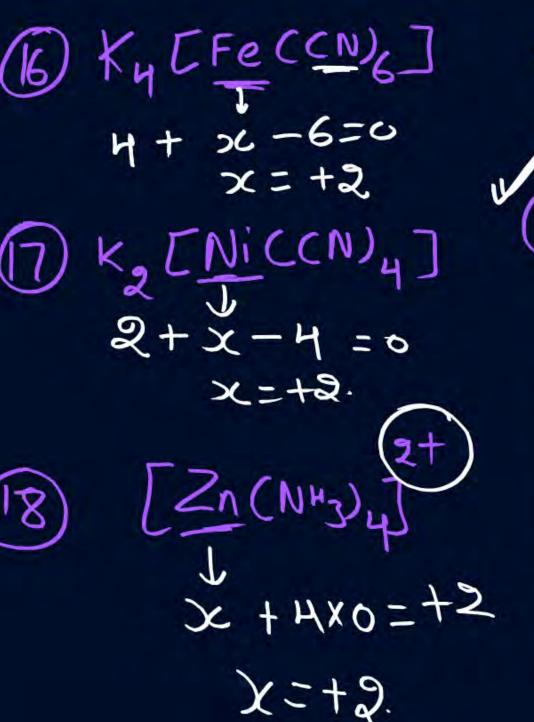
- 7 Mr
- 8 NO3 T-6=-1 X=6-1=5
 - $\begin{array}{c} 50^{4} \\ -5 \\ -8 \\ -2 \\ -2 \\ -8 \\ -2 \\ -46 \end{array}$

- (b) \(\frac{1}{2} \) \(\frac
 - HNO3 1+x-6=0 x=5
- 13) Kg (37307 T 11 = 2 2 2 2 = 6



2x=10

2-5

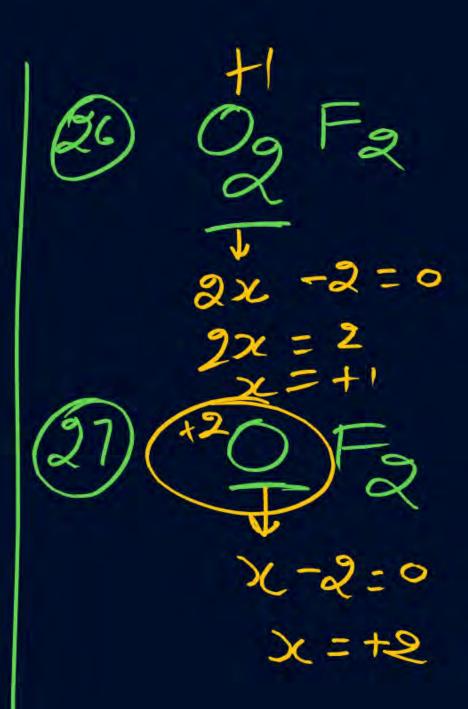


x +4x0=0 Fe (HO) NO] SO4 x +5x0+1x1+(-2)-0 X+1-2=0 Z-1=0 义ニナ/ Brown surg test

Pw

(23) By F5 (25) I F 7

$$x-5=0$$
 $x-7=0$
 $x=+5$ $y=+7$



®

(58) Hg2 (12 2x-2=0 2x-2=1

(29) Hg U2 TH3 U2 X-2=0 X=12



MEDICS > Mondary

Test no = 2

Complete some basic of Chemistry

Complete some basic of Chemistry





Another way to find Oxidation Number

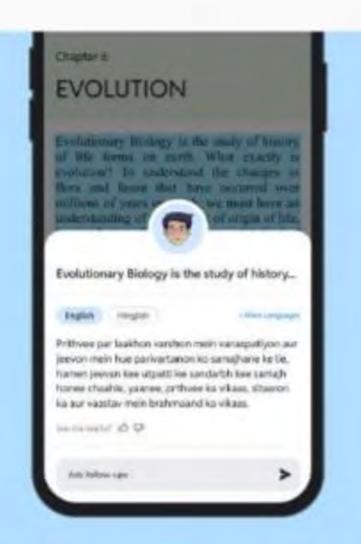


- For every single covalent bond
- ➤ More electronegative atom has -1 Oxidation state
- ➤ Less electronegative atom has +1 Oxidation state

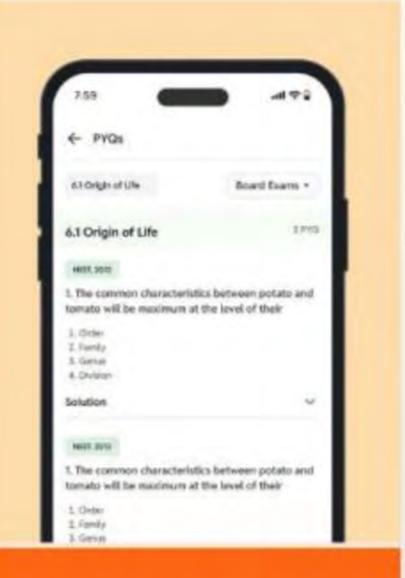


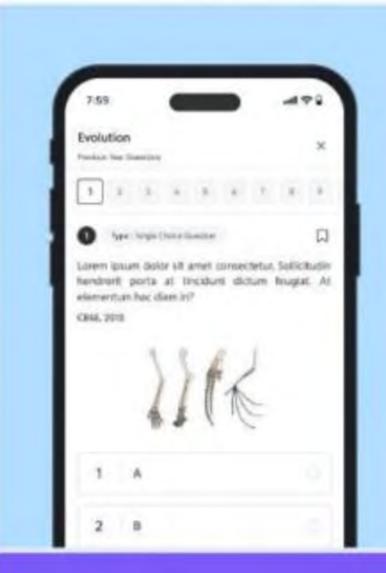
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