TIME: 35 Min.



DPP # 01

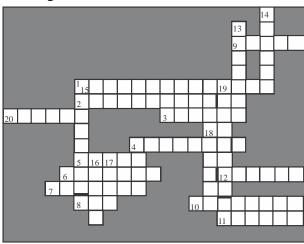
INORGANIC CHEMISTRY

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ACROSS

- 1. This method is used to separate butter from cream in dairies and in washing machines to squeeze out water from wet clothes.
- 2. Sulphur in carbon disulphide is a mixture.
- **3.** The isotope of this element is used in treatment of goitre.
- 4. The highly exothermic reaction between Fe₂O₃ and Al which is used to join railway tracks and cracked machine parts
- 5. These rays are positively charged radiations which were discovered by E.Goldstien in gas discharge tube even before electron was discoverd.
- **6.** The combining power or capacity of an element.
- 7. The size of particles of this mixture is too small to be individually seen by naked eye but big enough to scatter a beam of light
- 8. Compounds compose of metals of non metals which contain charged species which can be positively or negatively charged. These charged species are called........
- 9. '..... water' is highly corrosive & fuming liquid which is a reagent to dissolve Au & Pt.
- **10.** During the electrolysis of water, gas obtained at cathode is
- 11. A purple dye obtained from a plant lichen and is commonly used as an indicator.
- When fats and oils in food gets oxidised and their smell and taste change they are said to become......

20. During the extraction of metals the impurities found in are such as sand gravel are called.......



- **13.** A 17th group element which is liquid at room temperature.
- 14. This element was initially chosen as a reference for measuring atomic masses because it reacts with large number of elements and forms compounds.
- 15. The formula of a compound shows its constituent element and number of atoms of each combining element.
- 16. A homogenous mixture of a metal and a non-metal or two or more metals often used to make articles resistant to corrosion.
- **17.** First inert gas in periodic table which posses a complete octet
- **18.** The simplest compounds which are made up of two different element are called..... compounds.
- **19.** Solution of iodine (solute) in alcohol(solvent) is called "...... of iodine".



ACROSS		DOW	DOWN	
1.	Centrifugation	11.	Litmus	
2.	Homogenous	12.	Rancid	
3.	Iodine	13.	Bromine	
4.	Thermite	14.	Oxygen	
5.	Canal	15.	Chemical	
6.	Valency	16.	Alloy	
7.	Colloid	17.	Neon	
8.	Ion	18.		
9.	Royal		Binary	
10	•	19.	Tincture	
10.	Hydrogen	20.	Gangue	



INORGANIC CHEMISTRY

TIME : 35 Min.

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ELEMENTS AND PROPERTIES OF SUBSTANCES

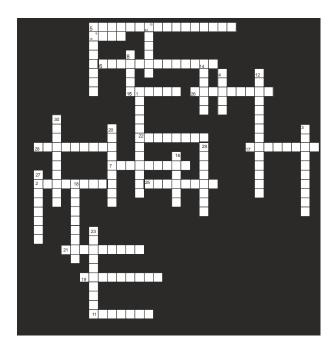
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	 O	••

- **2.** assists the metabolism of sugar.
- **5.** Melting is also called
- **6.** CaCl₂ is in nature.
- 7. is not indicated in chemical equation.
- **9.** Boiling is phenomenon.
- **10.**is used for white washing walls.
- **11.** Second element showing maximum catenation.
- **15.**involved in production of RBC.
- **17.** is added to alcohol in industries to avoid misuse of alcohol.
- **19.**is important constituent of banana.
- **21.** plants are most efficient convertor of sunlight energy into chemical energy.
- 22. The complete neutralisation is indicated by sudden change in colour of indicator. This is called......
- **25.** Stibium is the latin name of
- **26.** maintain proper calcium level in bones.
- **28.** bush are blue in colour in acidic soil & pink in alkaline soil.

DOWN

- 1. gas is used in welding & cutting.
- **3.** acid is used in antirust point & fertiliser
- **4.** Noble gas which is major component of air.

8. Colour flame of potassium.



- **12.** NaOH is manufacture in cell.
- **13.** is added in power alcohol so as to mix alcohol & petrol.
- **14.** is present in vitamin B12.
- **16.** is used for differentiating cancerous tissue from normal tissue.
- **18.** Carnallite is ore of
- **20.** Rutherford model is also called model.
- **23.** Element of group 16 are called
- **24.** Amalgam is reducing agent.
- **27.** Eka boron is
- **29.** Which element means moon in Greek word.
- **30.** Methanol is also called



Oxyacetylene	16.	Sodium
Chromium	17.	Methanol
Phosphoric	18.	Magnesium
Argon	19.	Potassium
Fusion	20.	Planetary
Deliquescence	21.	Sugarcane
Explosion	22.	End point
Lilac	23.	Chalcogens
Bulk	24.	Sodium
Slaked lime	25.	Antimony
Sulphur	26.	Manganese
Castner-kellner	27.	Scandium
Benzene	28.	Hydrangea
Cobalt	29.	Selenium
Copper	30.	Wood spirit
	Chromium Phosphoric Argon Fusion Deliquescence Explosion Lilac Bulk Slaked lime Sulphur Castner-kellner Benzene Cobalt	Chromium 17. Phosphoric 18. Argon 19. Fusion 20. Deliquescence 21. Explosion 22. Lilac 23. Bulk 24. Slaked lime 25. Sulphur 26. Castner-kellner 27. Benzene 28. Cobalt 29.



DPP # 03 INORGANIC CHEMISTRY TIME : 35 Min.

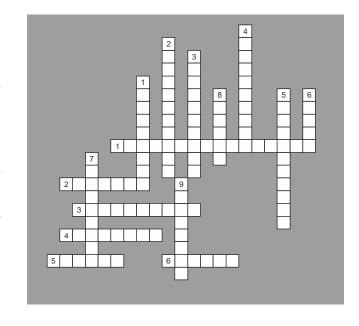
Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ELEMENTS AND PROPERTIES OF SUBSTANCES

ACROSS

- **1.** A colourless gas which smells of rotten eggs. (words = no space)
- **2.** Mendeleev predicted this then undiscovered element and named it eka-aluminium
- **3.** A compound is colourless and used as a gas odorant.
- **4.** Known as the 'Gold Schmidt process' this process is used in welding.
- **5.** heat is the energy released during a constant temperature process.
- **6.** The name of this element originated from the word 'cyprus' . It is used in 'bronze'.

- **1.** This element is used as a catalyst in hydrogenation of unsaturated hydrocarbon.
- **2.** The compound used to degrease metals.
- **3.** An aromatic compound which sublimes
- 4. Weak forces also called
- **5.** Conversation of carbonates into oxides, used in metallurgy.
- **6.** A hot and concentrated solution of common salt.



- **7.** This allotrope of carbon looks like the geodesic dome designed by US architect Buckminster.
- **8.** The hydrogen and oxygen ratio in water is always 2:1. This law given by......
- **9.** Milky glass is this type of colloid.



ANSWER KEY

DOWN

ACROSS

- 1. Hydrogensulphide
- 2. Gallium
- 3. Mercaptile
- 4. Thermite
- 5. Latent
- Copper 6.

- Palladium 1.
- 2. Caustic soda
- 3. Anthracene
- 4. Vander waal
- 5. Calcination
- 6. Brine
- 7. Fullerene
- 8. **Proust**
- 9. Solid sol



INORGANIC CHEMISTRY

TIME: 35 Min.

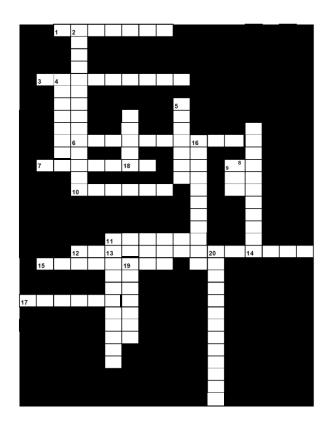
Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it. ELEMENTS AND PROPERTIES OF SUBSTANCES

ACROSS

- 1. It is used as nail polish remover.
- 3. It starts with the name of a nation and have the properties of both metals & non-metal.
- 6. It converts directly to gas from solid.
- 7. It is a bulk phenomenon & it's value for water is 100°C.
- 8. A gas having odour like rotten egg
- 10. Element which is used as a catalyst during hydrogenation of vegetable oil.
- 11. These are water soluble bases
- 12. He introduced the word mole.
- 15. A mineral from which mercury can be extracted profitably.
- 17. An element exhibits greatest property of catenation.

DOWN

- 1. Process used in washing machine to squeeze out water from wet clothes
- 4. A good organic solvent used in medicines
- 5. It is the only liquid metal at 26°C.
- 16. A surface phenomena causes cooling.
- 9. A dehydrating agent which removes water from ethanol.
- 13. It is the hidden heat into the content.
- 19. Neither a metal nor a metalloid but liquid at room temperature.
- 20. This constitutes the thick white & yellowish atmosphere of Venus.



UP

- **14.** Used to remove permanent hardness of water.
- 18. Used in soda-acid fire extinguisher.



ANSWER KEY

ACROSS

- **1.** Acetone
- **3.** Germanium
- **6.** Anthracene
- **7.** Boiling
- 8. H_2S
- 10. Nickle
- 11. Alkali
- 12. Wilhelm Ostwald
- 15. Cinnabar
- **17.** Carbon

DOWN

- 2. Centrifugation
- **4.** Ethanol
- **5.** Mercury
- **16.** Evaporation
- 9. H_2SO_4
- **13.** Latent Heat
- **19.** Bromine
- 20. Sulphuric acid

UP

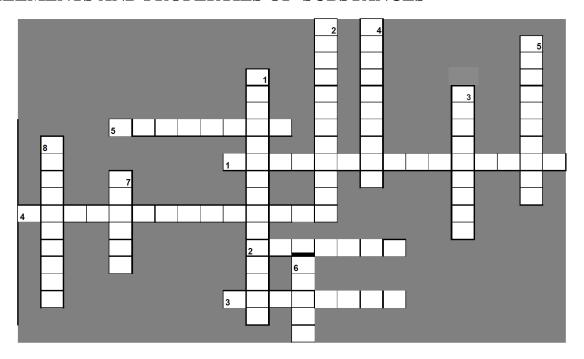
- 14. Washing Soda
- **18.** NaHCO₃



DPP # 05 INORGANIC CHEMISTRY TIME : 35 Min.

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ELEMENTS AND PROPERTIES OF SUBSTANCES



ACROSS

- 1. This process precipitates a colloid.
- 2. An alloy of mercury with another metal.
- **3.** A scarlet-red coloured major ore of mercury.
- **4.** The random movement of particles suspended in a fluid (2 words no space)
- **5.** Process of conversion of sulphide ore to oxide

- 1. An indicator used in acid-base titration.
- **2.** This process is named after a gaseous non metal widely used as disinfectant

- **3.** Commonly known as 'royal water', this mixture dissolves gold.
- **4.** This propertiy of carbon is the reason for the vast number of organic compounds in nature.
- **5.** This variety of coal has the highest calorific value of all types of a coal.
- **6.** This noble element is used in photographic flash lamps
- **7.** The unwanted material which is losely mixed with a mineral in an ore deposit.
- **8.** Chemical compound with formula CHCl₃ used in anesthesia in medical surgeries.



	ACROSS		DOWN
1.	Electrophoresis	1.	Phenolphthalein
2.	Amalgam	2.	Chlorination
3.	Cinnabar	3.	Aquaregia
4.	brownianmotion	4.	Catenation
5.	Roasting	5.	Anthracite
		6.	Xenon
		7.	Gangue
		8.	Chloroform



DPP # 06 INORGANIC CHEMISTRY

TIME: 35 Min.

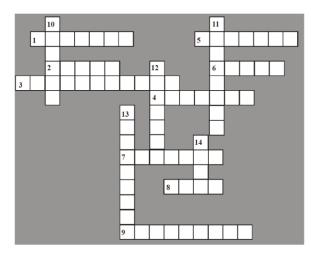
Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ELEMENTS AND PROPERTIES OF SUBSTANCES

ACROSS

- **1.** Used to manufacture cement, helps in building strong bones.
- **2.** Used to prepare fiberglass and insecticides, also used in eyedrops.
- **3.** This element is used in fertilizers, also used as a substitute salts.
- **4.** Used as a lubricant and also used in batteries and for medicinal purposes.
- **5.** Used in making computer chips. Also has medicinal properties.
- **6.** This noble gas is used in light bulbs and also for arc welding.
- 7. This liquid metal is used in thermometers, it was found in a 3,500 years old Egyptian tomb.
- **8.** Brass is an alloy of copper and this metal.
- **9.** Used in preparation of batteries, steel and ceramics.

- **10.** Used as a fuel in thermal power plants, usually found as coal or soot.
- **11.** This metal is used to make aircraft, naval ships, and body replacements.
- **12.** Used to prepare gunpowder and fire crackers. It is a pale yellow material also used in ayurved.



- **13.** Used in packing food and making cooking utinsls.
- **14.** This cheap metal is used since 5000 years. It is used to make nails and it is an important component of chlorophyll.



Zinc

Manganese

8.

9.

	ACROSS		DOWN
1.	Calcium	10.	Carbon
2.	Boron	11.	Titanium
3.	Phosphorous	12.	Sulphur
4.	Lithium	13.	Aluminium
5.	Silicon	14.	Iron
6.	Argon		
7.	Mercury		



INORGANIC CHEMISTRY

TIME: 35 Min.

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ELEMENTS AND PROPERTIES OF SUBSTANCES

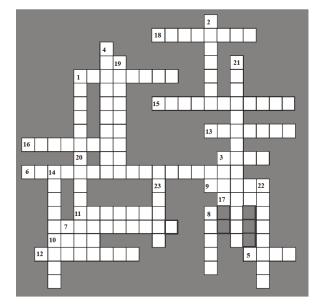
ACROSS

- **1.** Hardest metal
- **12.** This element gets its name from a Greek word which means 'MOON'.
- **6.** It is kept in amber coloured bottles so as to cut off light.
- **13.** This term refers to any substance participating in a reactions.
- 7. While moving from outer to inner side of "INNER PLANETS' the atmosphere of third planet is made up of this acid.
- **5.** Galvanisation is done to protect iron & steel articles. It is done with the help of this element.
- **9.** Number of structural isomers of pentane
- **3.** This word was introduced by Wihelm Ostwald.
- **17.** Standard atmospheric pressure is measured in
- **16.** Generally this gas is present in fluorescent tubes
- **11.** He is one of the person to receive nobel prize in 2001 for achieving Bose Einstein condensation.
- **15.** This symbol suggested by Berzillius represents which element
- 10. Most ductile metal
- **18.** This element is present in water but not in Heavy Water

DOWN

- 1. Third most abundant metal
- **2.** Castner kellner cell is used to manufacture an Alkali metal of this alkali is

3. BEC is which state of matter.



- **14.** These are generally ammonium or sulphonate salts of long carboxylic acids & also remain effective in hard water.
- 19. Canal rays were discovered by
- **7.** Milk of magnesia is which type of colloid.
- **20.** Smallest particle of an element or a compound that is capable of independent existence & shows all the properties of that substance
- **22.** Which type of colloid is face cream.
- **21.** The technique is used for separation of those solutes that dissolve in the same solvent.
- **23.** Tincture of iodine is a solution of iodine in alcohol. In this solution, iodine is present in which state of matter [solid/liquid/gas]
- **4.** This alloy is made up of aluminium, copper, magnesium & manganese

DOWN

ACROSS	
--------	--

- 1. Chromium
- **12.** Selenium
- **6.** Hydrogen peroxide
- 13. Reagent
- 7. Sulphuric acid
- 5. Zinc
- **9.** Three
- 3. Mole
- **17.** Bar
- **16.** Helium
- 11. Cornell
- **18.** Hydrogen
- **15.** Phosphorous
- **10.** Gold

- 1. Calcium
- 2. Sodium
- **8.** Fifth
- **14.** Detergent
- 19. Goldstein
- **7.** Sol
- **20.** Molecule
- **22.** Emulsion
- **21.** Chromatography
- 23. Solid
- **4.** Duralumin



INORGANIC CHEMISTRY

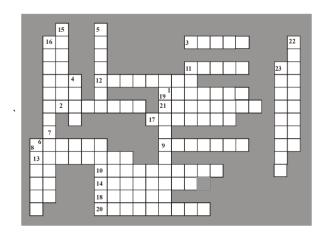
TIME: 35 Min.

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ELEMENTS AND PROPERTIES OF SUBSTANCES ACROSS

- **1.** Gas having Red-brown vapours.
- **2.** It is a sublimable compound commonly used in prayers.
- 3. Mixture of zinc and copper is alloy
- **6.** Element used in destroying maligant cells of patients of cancer.
- **9.** Special name given to atoms having same atomic number.
- **10.** An element necessary for plants.
- 11. Colour of lead nitrate is
- **12.** Synonym for unbalanced reaction is reaction.
- **13.** All synthesis reaction are reaction.
- **14.** Iron is a/an agent.
- **17.** Aluminium is used as agent in fire extinguishers.
- **18.** Naturally methyl orange is in colour.
- **19.** Used in swelling bread.
- **20.** powder is used to form chloroform.
- **21.** Process of extremely heating concentrated ore in presence of excess air is known as

- **4.** Shaving cream is which type of colloidal solution.
- **5.** Law of constant proportion was stated by
- **7.** Element used for examining circulation of blood.



- **8.** Element used for finding age of plants, fossils etc.
- **15.** Silver sulphide is in colour.
- **16.** HF is acid.
- **22.** Name process in purification of metal which is based of fusibility differences between impurity and metal.
- **23.** Which carbon allotropes has football shape?



		121 (8) (1221		
	ACROSS			DOWN
1.	Bromine		4.	Foam
2.	Camphor		5.	Proust
3.	Brass		7.	Sodium
6.	Cobalt		8.	Carbon
9.	Isotope		15.	Black
10.	Molybdenum		16.	Dibasic
11.	White		22.	Liquation
12.	Skeletal		23.	Fullerene
13.	Addition			
14.	Reducing			
17.	Foaming			
18.	Yellow			
19.	Baking soda			
20.	Bleaching			
21.	Roasting			



DPP # 09 INORGANIC CHEMISTRY

TIME: 35 Min.

Road to IIT is pretty straight, you just need to take **first step** in the right direction & then continue moving on it.

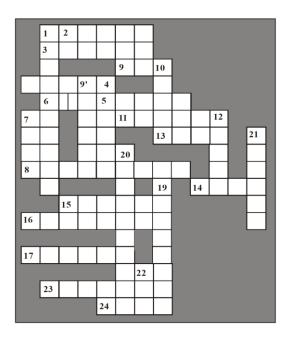
ELEMENTS AND PROPERTIES OF SUBSTANCES

ACROSS

- **2.** Elements belonging to the same can be in a traid according to Doberiner
- **4.** FeS₂ is commonly called......gold (from right to left)
- **6.** Bleaching action of CaOCl₂ is the oxidation of this element. It is named so due to its
 - greenish yellow colour.
- **8.** Most negative is of chlorine in periodic table
- **9.** The maximum oxidation state possible of an element is x. Then x 1 = ? (Prominent in manganese)
- **11.** In electrolysis, is made of impure metal. Oxidation takes place here.
- **13.** It is prepared in castener keller cell. Prominent alkali.
- **14.** Galena is an ore of
- **15.** It is obtained as a decay product of ²²⁶Ra. Group 18 element.
- 16. Although present in d-block, zinc, canmium &.... are not called transition element.
- **17.** KNO₃ is commonly known as salt petre.
- **18.** H₂O can be called all type of acid & base except base (type of classification)
- **22.** Water gas is $H_2 + x$, produces gas is $H_2 + x$.

What is x?

- **23.** Quartz is made of this element used to make solar cells.
- **24.** Earlier bell metal (Cu + Sn) was mixed as transformed into this metal (At. no \rightarrow 79)



- **1.** Group 16 elements are called (ore producing)
- **3.** The noble gas is used to fill ballon. Can be called exception of p-block.
- **5.** HNO₃ is prepared by this process in a large scale.
- 7. Shaving cream is a foam whereas cream is an emulsion.
- **9.** $H_2S_2O_7$ is commonly known as It is a mixture of $SO_3 \& H_2SO_4$.
- **10.** This noble gas has maximum number of compounds known.
- **12.** The formula of inorganic benzene can be $B_xN_xH_{2x}$ where x = ?
- **19.** The color of flame of lithium is
- **20.** In group 17, has only single oxidation state possible (-1)
- **21.** It is an alloy of Pb + Sn.



ANSWER KEY

ACROSS:

- 2. Group
- 4. **Fools**
- 6. Chlorine
- 8.
- 9. Six
- 11. Anode
- 13. NaOH
- 14. Lead
- 15. Radon
- Mercury 16.
- Indian 17.
- 18.
- 22. CO
- 23. Silicon
- 24. Gold

- 1. Chalcogens
- 3. Helium
- 5. Ostwald
- 7. Hair
- 9. Oleum
- 10. Xenon
- 12. Three
- 19. Crimson
- 20. Flourine
- 21. Solder



DPP # 10 INORGANIC CHEMISTRY TIME : 35 Min.

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ELEMENTS AND PROPERTIES OF SUBSTANCES

ACROSS

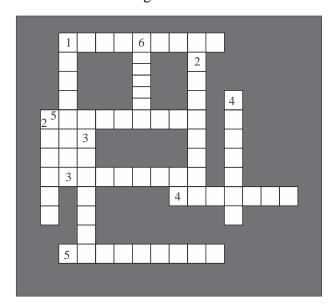
- 1. Used as an oxidising agent in many chemical
 - industries powder.
- **2.** Chips manufactures usually flush bags of chips

from thig gas to prevent the chips from getting oxidised.

- **3.** Gas used to make PVC.
- **4.** Substance used to neutralise the excess acid in our stomach
- **5.** Metal used in alumino-thermite process

- **1.** Compound used in Black & White photography is silver
- **2.** Gas used to make morgarine.

- **3.** Alcohol used for drinking purposes.
- **4.** 7% aq. solution of CH₃COOH, used as a preservative & for flavouring.
- 5. Used as a strong oxidising agent acid
- **6.** Used in smelting





ACROSS:

- 1. Bleaching
- 2. Nitrogen
- **3.** Chlorine
- 4. Antacid
- 5. Aluminium

DOWN:

- 1. Bromide
- 2. Hydrogen
- **3.** Ethanol
- 4. Vinegar
- 5. Nitric
- 6. Carbon



DPP # 11 INORGANIC CHEMISTRY TIME : 35 Min.

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it. ELEMENTS AND PROPERTIES OF SUBSTANCES

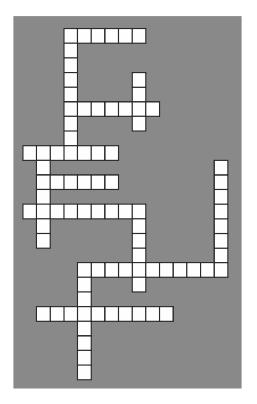
UP-DOWN

- **1.** Branch of physical science important for study of matter and our selection in IIT.
- 2. Steel contains it as its major part also magnet attracts this element
- **3.** Branch of science dedicated primarily to a single element.
- **4.** Most electronegative in their respective periods.
- **5.** Electric wires are made of it and many pipes are also made.
- **6.** Found in excess, we can't directly use it and plants need bacteria to fix it.

ACROSS

- **1.** This element has the highest property of catenation.
- 7. This element has a valley named after it.
- **8.** A class of chemistry is dedicated to this, plastic also belongs to this.
- **9.** A calcium salt that is a major component of cement.

- 10. Study of all known elements and their compounds except hydrocarbons and their derivatives.
- **6.** Gold, silver and platinum are called as
- 11. A metal that is now being used as a fuel as a part of latest technology, the idea was given by an indian scientist in the early 1900s.







ANSWERKEY

DOWN:

- 1. Chemistry
- 2. Iron
- Organic 3.
- 4. Halogens
- 5. Copper
- Nitrogen 6.

ACROSS:

- 1. Carbon
- 7. Silicon
- Polymer 8.
- Gypsum 9.
- Inorganic 10.
- 6. Native metals
- 11.



INORGANIC CHEMISTRY

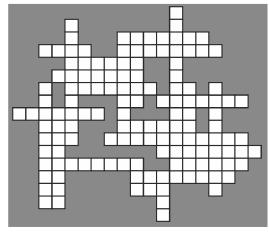
TIME : 35 Min.

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it.

ELEMENTS AND PROPERTIES OF SUBSTANCES ACROSS DOWN

- **1.** Substances which gives (OH)⁻ ion when dissolved in water.
- **3.** The state of matter consists of super energetic particle & excited particle.
- **4.** The type of mixture an which particle size ranges from 10^{-7} to 10^{-9} .
- **6.** It is mixture (homogenous) of two or more metals or a metal or non-metal.
- **8.** A non-metal which is liquid at room temperature.
- **9.** Main component of atmosphere has higher concentration.
- **13.** The substance which has highest conc. in solution.
- **15.** It is the substance that gives (H)⁺ ion. When dissolved in water.
- **16.** Reduction with carbon is called......
- **17.** Positively charged ion is
- **18.** Negatively charged ion is
- **19.** Common name of O_3
- **20.** The homogenous mixture whose particle size is $< 10^{-9}$ m.
- **21.** Minerals from which metals are extracted economically.
- **23.** The subatomic particle carry negative charge is.
- **26.** The colloid in which dispersing medium is solid & dispersed phase is liquid.

2. The type of mixture whose particle size range is 10^{-7} to 10^{-5}



- **5.** The sub-atomic particle carry positive charged particles.
- 7. The branch of chemistry that deals with study of all known element their compounds & except
 - hydrocarbon & their derivatives.
- **10.** The type of colloid in which despairing medium is liquid & dispersed phase is solid.
- **11.** The smallest particle that take part in chemical reaction.
- 12. It is SI unit of amount of substance.
- **14.** Addition of H_2 , gain of electron or loss of O_2 is called......
- **22.** Poorest conductor of electricity.
- **24.** The ray formed by removing all electrons from helium atom.
- **25.** The probability of finding an electron in an atom is maximum at this place.



ACROSS:

- 1. Base
- 3. Plasma
- 4. Colloid
- **6.** Alloy
- **8.** Bromine
- 9. Nitrogen
- 13. Solvent
- **15.** Acid
- **16.** Smelting
- **17.** Cation
- **18.** Anion
- **19.** Ozone
- **20.** Solution
- **21.** Ore
- 23. Electron
- **26.** Gel

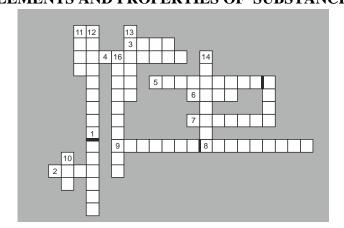
DOWN:

- 2. Suspension
- **5.** Proton
- 7. Inorganic
- **10.** Sol
- 11. Electron
- **12.** Mole
- **14.** Reduction
- **22.** Lead
- **24.** Alpha
- 25. Orbital



DPP # 13 INORGANIC CHEMISTRY TIME : 35 Min.

Road to IIT is pretty straight, you just need to take first step in the right direction & then continue moving on it. ELEMENTS AND PROPERTIES OF SUBSTANCES



DOWN

- **1.** Used in thermometers and is liquid at room temperature.
- **10.** Metal which is non-poisonous and used to coat tiffin boxes
- **11.** Yellow colour elements which is most ductile and is used in jewellary.
- **12.** The most abundant metal on the earth surface.
- **13.** Best conductor of electricity and is used to make jewellary.
- **14.** Hardest metal which is used is electroplating.
- **15.** Metal which is poorest conductor of heat.
- **16.** Substances having different physical properties but have almost similar chemical properties.

ACROSS

- **2.** Used as a major component in galvanisation
- **3.** Exhibits magnetic properties and its corrosion process is termed as rust .
- **4.** Egg-shell contain this element as the main constituent.
- **5.** Element which is not a metal but placed in reactivity series .
- **6.** Yellow colour elements which is most duetile and is used in jewellary
- **7.** Allotrope of carbon which is hardest substance
- **8.** Floats on water surface if immersed and when ignited gives white dazzling flame.
- **9.** A synthetic substance which can be moulded into any shape by heating.



ANSWER KEY DOWN

- **1.** Mercury
- **10.** Tin
- **11.** Gold
- **12.** Aluminium
- 13. Silver
- **14.** Chromium
- **15.** Lead
- **16.** Allotropes

ACROSS

- 1. Magnesium
- 2. Zinc
- **3.** Iron
- 4. Calcium
- 5. Hydrogen
- **6.** Gold
- 7. Diamond
- **8.** Malleable
- 9. Plastic