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Exam technique

946. What is the chemical formula of caustic potash – **KOH**
947. Which element has the lowest melting point – **Oxygen**
948. What is the chemical name of quick lime – **Calcium oxide**
949. A sudden fall of mercury in a barometer indicates – **Stormy weather**
950. The term ‘radio activity’ was first used by – **Marie Curie**
951. PH value of alkaline solution is - **>7**
952. The pH scale had been given by – **Sorensen**
953. Sulphuric acid is – **Dibasic**
954. The PH value of milk is – **6.6**
955. Hydrochloric acid is also known as – **Muriatic acid**
956. The purest form of water in nature is – **Rain water**
957. Tube light is filled with – **Mercury Vapour & Argon**
958. Other name of “FOOL’S GOLD” is – **Iron Pyrite**
959. Non-stick coating in utensils is of – **TEFLON**
960. Compounds responsible for temporary hardness of water – **Bicarbonates of Calcium and Magnesium**
961. Compounds responsible for permanent hardness of water – **Sulphates and Chlorides of Calcium and Magnesium**
962. Gases used for ripening raw fruits – **Ethylene & Acetylene**
963. Main ore of Mercury is – **Cinnabar**
964. Egg shell is made up of – **Calcium Carbonate**
965. What is known as Artificial Silk – **Rayon**
966. Water soluble Vitamins – **B & C**
967. Fat Soluble Vitamins – **A, D, E & K**. Common preservative in food processing industry is – **Benzoic Acid**
968. First organic compound synthesized in laboratory & by whom – **Urea by Friedrich Wohler**
969. What blackens silver’s shine – **Ozone Gas**
970. Substance used in Cancer treatment – **Cobalt – 60**
971. Cobalt is found in – **Vitamin B12**
972. Iron is extracted from which ore – **Hematite**
973. Which element that does not occur in nature but can be produced artificially – **Plutonium**
974. How are Oxygen and ozone – **Allotropes**
975. Which type of glass is used for making glass reinforced plastic – **Quartz glass**
976. Which is the element that has the highest first ionization potential – **Nitrogen**
977. Temporary hardness of water is due to the presence of which thing – **Magnesium bicarbonate**
978. Thermal decomposition of alkanes is known as which name – **Cracking**
979. Which is the essential element in all organic compounds – **Carbon**
980. What does Oxidation involve – **Loss of electrons**
981. What is the number of unpaired electrons in carbon atom – **2**
982. Heating pyrites in air to remove sulphur is known as which name – **Roasting**

3. Important Chemical Compound with their usage

1.	Hydrogen Chloride (HCL)	Found in stomach as Gastric Juice for Digestion of food
2.	Sulphuric Acid	Often referred to as the “King of Chemicals”, has applications mainly in Car Batteries, Detergents, Fertilizers
3.	Acetic Acid (CH₃COOH)	Chemical name of Vinegar
4.	Citric Acid	Present in Lemons and Citrus fruit
5.	Sodium Chloride	Chemical Name of Common Salt
6.	Benzoic Acid	Mainly used as a preservative for Food
7.	Sodium Carbonate	Chemical Name of Washing Soda
8.	Nitric Acid	Commonly used in Manufacturing of Fertilizers like Ammonium Nitrate
9.	Sodium Hydrogen Carbonate	Chemical name of Baking Soda
10.	Carbonate	
11.	Formic Acid	Used as Food Preservative, found mainly in ants, low concentration is useful to Humans. High Concentration is dangerous
12.	Potassium Hydroxide	Chemical name of Caustic Potash
13.	Calcium Hydroxide	Chemical name of Lime Water
14.	Boric Acid – Hydrogen Borate	Commonly used antiseptic, Flame retardant
15.	Magnesium Hydroxide	Chemical name of Milk of Magnesia, commonly used an antacid
16.	Aluminum Hydroxide	Most commonly used foaming agent in Fire Extinguishers
17.	Potassium Nitrate	Commonly used in manufacturing of Match Sticks and Gunpowder
18.	Calcium Carbonate	Very Important Compound in Cement Industry
19.	Calcium Sulphate	Chemical name of Plaster of Paris
20.	Calcium Hypochlorite	Chemical name of Bleaching Powder
21.	2-Acetoxybenzoic acid	Chemical name of Aspirin
22.	Ethanol	Chemical name of Alcohol
23.	Copper Sulphate	Chemical name of Blue Vitriol – Hydrated Salt
24.	Ferrous Sulphate	Chemical name of Green Vitriol – Hydrated Salt
25.	Magnesium Sulphate	Chemical name of Epsom Salt – Hydrated Salt
26.	Borax	Chemical name of Sodium Borate – Hydrated Salt
27.	Trichloromethane	Chemical name of Chloroform
28.	Carbon Dioxide	Chemical Name of Dry Ice, primarily used as a cooling agent

8. Minerals: Their Functions and Sources

Microminerals:

Mineral	Function	Sources
Sodium	Needed for proper fluid balance, nerve transmission, and muscle contraction	Table salt, soy sauce; large amounts in processed foods; small amounts in milk, breads, vegetables, and unprocessed meats
Chloride	Needed for proper fluid balance, stomach acid	Table salt, soy sauce; large amounts in processed foods; small amounts in milk, meats, breads, and vegetables
Potassium	Needed for proper fluid balance, nerve transmission, and muscle contraction	Meats, milk, fresh fruits and vegetables, whole grains, legumes
Calcium	Important for healthy bones and teeth; helps muscles relax and contract; important in nerve functioning, blood clotting, blood pressure regulation, immune system health	Milk and milk products; canned fish with bones (salmon, sardines); fortified tofu and fortified soy milk; greens (broccoli, mustard greens); legumes
Phosphorus	Important for healthy bones and teeth; found in every cell; part of the system that maintains acid-base balance	Meat, fish, poultry, eggs, milk, processed foods (including soda pop)
Magnesium	Found in bones; needed for making protein, muscle contraction, nerve transmission, immune system health	Nuts and seeds; legumes; leafy, green vegetables; seafood; chocolate; artichokes; "hard" drinking water
Sulfur	Found in protein molecules	Occurs in foods as part of protein: meats, poultry, fish, eggs, milk, legumes, nuts

microminerals

Mineral	Function	Sources
Iron	Part of a molecule (hemoglobin) found in red blood cells that carries oxygen in the body; needed for energy metabolism	Organ meats; red meats; fish; poultry; shellfish (especially clams); egg yolks; legumes; dried fruits; dark, leafy

18. Alloys, compositions and their uses

Alloys	Compositions	Uses
Brass	Cu + Zn	In making utensils.
Bronze	Cu + Sn	In making coins, bell and utensils.
German Silver	Cu + Zn + Ni	In making utensils.
Rolled Gold	Cu + Al	In making cheap ornaments.
Gun Metal	Cu + Sn + Zn + Pb	In making guns, barrels, gears and bearings.
Dutch metal	Cu + Zn	In making artificial ornaments.
Delta metal	Cu + Zn + Fe	In making blades of aero plane.
Munz metal	Cu + Zn	In making coins.
Monel metal	Cu + Ni	For base containing container.
Rose metal	Bi + Pb + Sn	For making automatic fuse.
Duralumin	Al + Cu + Mg + Mn	For making utensils.
Magnalium	Al + Mg	For frame of aero plane.
Solder	Pb + Sn	For soldering.
Type metal	Sn + Pb + Sb	In printing industry.
Bell metal	Cu + Sn	For casting bells and statues.
Stainless steel	Fe + Cr + Ni + C	For making utensils and surgical cutlery.
Nickel steel	Fe + Ni	For making electrical wire, automobile parts.

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