



Every Day Science

- ♦ Electric Bulbs are filled with Argon Gas.
- ♦ Stainless Steel resists rusting as it contains a high proportion of chromium to carbon.
- ♦ Radioactive disintegration of Uranium finally leads to lead.
- ♦ The Gas responsible for Bhopal Gas Tragedy was Methyl Isocyanate
- ♦ The element common to all acids is hydrogen.
- ♦ The conversion of a substance directly from solid to vapour state is known as sublimation, e.g. Camphor, iodine etc.
- ♦ Chlorofluora carbons (CFCs) are chemical compounds that find application in refrigeration, air conditioning and aerosol sprays.
- ♦ Bleaching powder is made from lime and chlorine.
- ♦ Heavy water is used in a reactor to slow down neutrons.
- ♦ The moderator in a nuclear reactor slows down the neutron to increase the probability of fission.
- ♦ Atom Bomb is an example of nuclear fission reaction. While Hydrogen Bomb is that of nuclear fusion reaction.
- ♦ Wax is rich in hydro carbons.



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

- ♦ The acid used in lead storage batteries is sulphuric acid.
- ♦ The domestic cooking gas consists mostly of liquified butane and Isobutane.
- ♦ Sodium is stored in Kerosene in order to avoid its evaporation.
- ♦ Plutonium is not found in nature and it is man made.
- ♦ The best conductor of electricity is distilled water.
- ♦ The element common in glass, cement and quartz is silica.
- ♦ Sun's energy is due to Nuclear Fusion in which Hydrogen is converted into Helium.
- ♦ A breeder nuclear reactor produces more fissionable material than it consumes.
- ♦ Iron sheets are galvanized to prevent corrosion by coating them with a layer of Zinc.
- ♦ Water boils 100°C at higher altitudes because atmospheric pressure is low there.
- ♦ Thorium is extracted from monazite sand.
- ♦ Oxy-acetylene flame has the maximum temperature.
- ♦ The coolant used in fast breeder reactors is generally liquid sodium.
- ♦ In a fast breeder reactor U-238 gets converted into Plutonium-239.
- ♦ The lightest substance known Hydrogen and the heaviest is Osmium.
- ♦ The gas used for artificial ripening of green fruits is Ethylene (C_2H_2)
- ♦ The Oil in water, is an example of suspension.



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

- ♦ Hydrogen cannot be used as an automobile fuel because of its highly explosive nature.
- ♦ The tissue responsible for conductance of water in plants of Xylem.
- ♦ The vegetation of Thar desert consist of Xerophytes.
- ♦ Carrot is n root, while potato Is a stem.
- ♦ pencillin is produced from fungi.
- ♦ A good source of Vitamin-A is carrot.
- ♦ Baked potato with skin has the highest fibre content.
- ♦ Raddish is not a stem but a root.
- ♦ Auxins are plant hormones.
- ♦ The edible part of mango is mesocarp and that of a apple is pome.
- ♦ The age of tree can be found by counting the number of annual rings
- ♦ Chlorella algae is rich in protein.
- ♦ Lateral roots arise from cortex.
- ♦ Seedless fruits are formed by parthenogenesis.
- ♦ Simple plants that contain no chlorophyl are called fungi.
- ♦ Hydroponics is cultivating plants without using soil.
- ♦ Tissue culture is growing of minute plant fragments in nutrient solutions.
- ♦ Plant possess cellulose while animals lack it.



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

- ♦ The growth of plant is measured by auxanometer.
- ♦ The study of fossil plants is called paleobotany
- ♦ The largest flower in the world is Refflessia and the smallest are is Wolfeia.
- ♦ Green plants lose water in the form of vapour from their aerial parts and this is called transpiration.
- ♦ Flowerless plants are called cryptogams, while decaying plants are called humus.
- ♦ The maximum fixation of solar energy is done by green plants.
- ♦ Plants, living in acidic soils are called oxalophytes.
- ♦ Arrow root, garlic and ginger are stem modifications.
- ♦ Pollination by insects is called intomophily.
- ♦ Double - fertilization is a special feature of angiosperms.
- ♦ During seed germination light is absorbed.
- ♦ The outer layer of cells of a stem is called epidermis.
- ♦ Retina in the eye acts as a film in the camera.
- ♦ The part of brain which is visible are eyes.
- ♦ Persons of blood group 'O' are called 'Universal Donor' while that of AB are called 'Universal Acceptors'.
- ♦ Vitamin-K helps in .the process of blood clotting.



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

- ♦ The total number of bones in an adult human body is 206.
- ♦ The face of a man is made up of 14 bones.
- ♦ The Longest muscle in the human body is found in the thigh.
- ♦ Energy is produced in human body by carbohydrates.
- ♦ In the eyes, the cells which are sensitive to colour are cones.
- ♦ Blood in human body is formed by yellow bone marrow.
- ♦ Spleen serves as blood bank in the body.
- ♦ The vitamin which is generally excreted in urine is Vitamin-C.
- ♦ The average human eye can distinguish between 40 shades of colour
- ♦ The temperature of a human body is controlled by hypothalamus
- ♦ The volume of Urine produced in an adult human being for every 24 hours is 6.5 litres.
- ♦ The total number of bones in human skull is 32.
- ♦ The total number of bones in the Ear is Six.
- ♦ The smell of a fine perfume is interpreted in brain in the temporal cortex.
- ♦ Human body contains the maximum of calcium carbonate minerals.
- ♦ Myopia is a defect of vision, blurring distant objects.
- ♦ The process by which Kidney stones are shattered with shock waves is called Lithotripsy.



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

- ◆ Small amount of Calcium improves resistance to tooth decay.
- ◆ Diabetes is caused due to malfunctioning of Panchreas.
- ◆ For good health, the relative humidity of a room should be about 50%.
- ◆ The round worms can be removed from the intestine of the man by administering piperazine citrate.
- ◆ Deficiency of iron causes the lack of blood (i.e. Anaemia)
- ◆ Muscle fatigue occurs due to the accumulation of lactic acid.
- ◆ Black water fever is a serious complication of Plasmodium Falciparum.
- ◆ The protein deficiency decease is known as Kwashiorker.
- ◆ No small Adult human male has 14 grams of haemoglobin in 100 gms of blood.
- ◆ Healing of wounds is hastened by Vitamin-K.
- ◆ In countries where polished rice is the main cereal, people suffer from beri beri.
- ◆ The accepted normal level of noice is 50 decibel.
- ◆ Temperature, sunlight and rainfall are biotic factors of environment,
- ◆ The study of the relation of animals and plants to their surroundings is called "Ecology".
- ◆ Cooking in presence of backing soda causes a quicker loss of Vitamin-C.
- ◆ We feel thirsty when osmotic pressure of blood increases.



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

- ◆ Water is biologically necessary because it is capable of dissolving many different substances.
 - ◆ A hard working adult In-India needs 3900 calories of energy daily.
-

Shakthii