The minerals in Nutrition Animals

in Course 104 Element Face​ 40 The element Mineral There is that ...

in in nature in The tissues plants and Animals Ruda​

**The minerals Be general ...**

**The category to It's open two Category :​​**

1 **- Element Macros (element Main):**

minerals, that should in weapons ...

amount of many and plenty in in the programs in The cells .

their concentration Be percentage issued​ The element it's important The important ones in The Coliseum, Fsor, magnesium, sodium, potassium, Chlorine and God​

2- **The element Small (elements or the element Followers):**

these Be it's fine it's fine it's fine it's fine it's fine it's fine it's fine it's fine it's fine it's fine it's fine it's fine it's fine They work .

**it's you It's a mineral Major :** These he they are minerals, It's been confirmed The role of Difficulty Change in The body in animals There is

**The element Zaya Unnecessary :** Many The element the smartest just The tissues Kanekanek Be foot in Nutrition and Be not given, but nothing a role Metabolic default in The body appearance or in animals do not play

**The duty general Minerals :**

other The minerals in Nutrition Animals Their relationship Be together There is and how much an organization general with this shape are given :

1: Like combination handsculpture​

2: In The organization balance Acid - base.

3: In Protection of in the protection Article the body and the organization in finally the physical colloidal Waxpawi and deploy and Pressure Heat​

4: Canada or The activator Enzyme and or Biology other Karda

Manifestations .

**The element The adults ( elements Adults ):**

whole metal The macros Here's the Discussions sign Be sign, Mebotalism, scarce and Source This Zayana​

**1 calcium:** calcium and Phosphorus as Tumakhimsi : The beginning of

The cells too sculpture, that further 99 % of the entire Callium body in Eye ... level ordinary calcium blood in in animals in between to 11 It's a milligram to any 100 neck Serum​

**he The causes of Their effects on level Callium blood There are :​**

1. Absolute calcium and Phosphorus and Phosphorus calcium

**one Food :** Small eating it any in The elements to for a while many must be

The decrease level calcium in blood​ compassion Ca: P 1:1 to 2: recommendation can​

2. **Fat in in food:** average Digestion and absorption fatness be its deterioration sucking calcium Calicy soap Correct does does not dissolve

3 **acidity physical and Oxalates:** Oxalates in some in food the calciums in the intestine they pour out of them oxalate calcium it doesn't melt Khoy it doesn't melt calcium and ... Wow it makes him that not melted.

4. **Communication Acidity:** Cooperation sour with in in the intestine absorption Calcium.

5. **Profitein in in food:** Salt calcium many further in acidity Aminida he says as in water, level height evolve It becomes Hoy Increasing it she died Calcium.

6. **Vitamins د in in food:** Vitamins د a center sour in in the intestine Provide does that it becomes Hoy

further sucking Calcium .

7. **Hormonal Parathyroid:** Hormonal parathyroid level Calicy in Plasma organizes​

8 **. level Kidneys :** in a person a position Normally any calcium extra that in kidneys be absorbed, Be ease in urinary tract infection

9. **Money Sexuality:** Lack level Hormonal Estrogen and bad absorption Calicicum.

**His works Calcium :** Calcium to The formation of Speaker, The reader calcium

we're bloody action The rhythm heart, exciting it nerve muscles, activity Enzymes and ...

it poured out curtains and balance The basis of acidity liquid body and Collection of milk . plenty in Enzymes of lipase, Suksk dehydrogenase,

denosyntriphophatase and how much Enzymatic Protoly Be from calcium Actively .

**sucking Calcium :** Location already absorption calcium in wrong slim ...

Be Private Section near Duodenal . other percentage absorption Calciumta with age and The arrival of the F of high and the coming of calcium many or The decrease View D low will​

**Symptoms of Deficiencies :​​**

1. **Rocket:**

2. **Science and skeletal muscle** in it's an animal the adults scarce calcium does

in disease It's calm . in diseases of in illness and soft .

Collection of Calicy in The bones to request further least work in this during​

3- **Collapse Barak:** Be reducing the power smell recognized​Lt هـەس that's it

again absorption bone it's more in Construction ... Lt in Pibunda obviously and call be scarce Hormonal the organs reproductively There is

4- **Fever Milk (protect**

**ion childbirth;** Thetani calcium ) : after for a while little baby in be, it's high

cow The productive ones infected fever milk become​ calcium Serum with ...

in performed tension Mask There is and in Zuleda violence paralysis The problem The problem in it's an animal The two names and he It's a calf that drawing dead or many thin be​

5- **In Chicken the ovary scarce** calcium become Be its development incorrectness The shell egg that or Be quite Correct not to be or Be ease breaks​

**2. Phosphorus:** partially main phosphorus in in animals in in the bones Distributed can​

Phosphorus Inorganic in in the blood 4 to 9 milligrams 100 necklace kind and age . and Protection of level Fsfani Naoanic in educated, the conscious is being conducted that assist Emergency calcium and sf Psychology​ blood quite 35 - 40 milligrams Phosphorus with to each00l​

**Its duties Phosphorus**

**a ) Phsf** a role huge in in its formation with Calci . chop phosphorus that in this in the structures There is in percentage 80th century entire general .

**Bsi protection in** level ordinary Callium blood and activity Accuracy did

such Correct doing​

**c ) The role of activity narrative** to the creation of phospholipids in cells, acidity nuclear, Coenzyme and phosphoprotein and phospholipids .

**d ) The role of a role huge** or in metathesis Zda in The formation of Phosphate sugar as adenosine disphate (ADP) and Try phosphate (ATP).

**Symptoms of scarce**

**1. Rickets:** lack Phosphorus with At the same time with calcium in it's an animal The young people.

**2. Disease Bone:** He The element scarce It becomes Hoy disease bone and Prusky in Years of in the great with Calcium.

**3. Pica (desire eating it bad)** scarcity Phosphorus It becomes Hoy Determination of determined in. animal that foot it is said Pica . it's an animal The participants desire eating it Their abnormality There is and wood and bone and Pay and Refugees foreigner you know many thin cheerful, solution if male, able to weakness or Be including inflammation take away, that in eat and Article badly​

4- Reproduction: Lack phosphorus in food be bad eating it Childbirth and interference His works the ovaries there is that be able to arrest become and worry and they don't go.

**reference Phosphorus :** Product His animals as meal fish, meal meat and meal bone a source of goodness Phosphorus . grains of cereal, Cole wheat, Cole rice, policing it rice, K and etc .

 **3. Magnesium:** 70 percent​entire Magnesium in in the bones that It remains in tissue and The liquids Distributed should​serum blood 2 to 3 milligrams Magnesium in any 100 neck. Mc in percentage 15. Gnesium with .

**hey Magnesium :​​**

1. Magnesium The role of huge in Activation of The anxieties as phosphorus the transferase and decarboxylase and Asil Transferase.

2. Magnesium an activator Photosphate and part of it efficient in Metallurgy in carbohydrates received​

3. for a role huge in Metallurgy Calicy and Phosphorus to The formation of him K and teeth.

4- Also Magnesium a role essential there is to activity nerve his muscles body​.

**suck magnesiummen and The net :** The face Magnesium its rumen sucking​ and in the intestine from the big one absorbed

​

**Sources of Magnesium** : Many it's common Their food is given and wheel percentage 0 . 1 . cut off and Cake oil and warehouse corn a source of rich Be Magnesium in eat milk and It's a product The animals a source of many They are poorer .

**Symptoms of Deficiencies :​​**

1- Zol Magneumum in it's an animal in adults (grass Stabbing what, Kzain Be Kzgay Breastfeeding or toxicity through gam called and The reason and others there are that They are responsible in He's a knife-wielding The adults as how Hormones and It’s a relationship His mistakes calcium, Phosphorus and Magnums. sign Clinical the tetanus in desire eat, Increase excitement, secretion Leaky many and convulsions​

2. Lack of Magnesiemia in it's a calf the young men: This in India report its open once the calves on Nutrition milk be nothing a supplementary other to for a while long bred can.

​3. Symptoms the nerve in in the mouse: in in the mouse the descent Magnesium to 1.8 ppm in performed anger many and Convulsions and His death caused​ in in the blood calcium and whisper It has been revealed that Magnesium reduced​ in Pawarda scarce Magnesium Symptoms of the nerve as mouse .

**4. Sodium:** A salt It is alkaline that Cy 93% alkali serum blood Correct does​in Its liquids body and his muscles in the body There is entire general Sodium in in the body century 0 . 2 is that in the thirst 0 . 0 in Their bones sits​

**His works Sodium** : : : : : : : : : : : : : : : : : : : : : :salt Sodium it's useful in The metabolism water and Protein and fat and to Carhydrates .

✔ ️ Current density liquid body and tension the fibers the nerve and the muscles and fluid pH body and Pressure Osmotic and intentionally in Protection of without the side between the tissues body.

**sucking Sodium :** Absorption Sodium in The rumen and above the the intestine load that lifted occurs . Be hands-on in the way urine is issued Be bit that in the way Desh and sweat appears​

**Sources of Sodium :​​**

The President Source Sodium chloride Sodium or salt common Section It is the foods and warehouse a source of bad Sodium Except in it's a plant that on modest Alkaline Their growth did to Recovery​

**5. Potassium:** A lot Potassium in in the houses there is Increase this its salt in...

body Interference in absorption and Metallurgy Magnesium .

**His works Potassium :​​**

1. Its potassiums part of it It's the main one with iondium and Chlorine and Karunabout, in The organization Pressure heat The liquids body and in balance sour and eagle in Animals .

2- Potassium The role of a great one in exciting it the nerve and the muscles and how much Enzyme active does​.

**Potassium :** Potassium : Intestinal of himself Real Madrid it's thin and until to some extent in side The elders I'll run ... a lot secretion Potassium It's in the urine and in the way sweat and milk​

Symptoms of Deficiencies :​​

\* scarce Potassium become slowing down grow, The decrease Food and water, The decrease Efficiency Nutrition weakening of muscle, Disorders nerves, weakness, Acidity Namely and It's a disorder He is a member The important ones

\* get to Potassium in head absorption and Mentalism Magnesium in animals, that a reason essential be in the reason The decrease Mania - Semi Leprosy.

​**Sources of Potassium:** in the body Potassium in the grass Potassium.

Be milkpotassium . within in the body in muscle and Plasma and The cells body​

**6. The sun** in leather and The tissues Under leather and juicy in the stomach There is in entire general he amount that in in the body There is in percentage 80 - 85 chloride Be shape of the Naganik The observer in each other in 55 percent 20 to shape of the It's organic .

**Its functions Chlorine :​​**

1. This it's a metal to make acidity Hydrochloric Shabati stomach

2. In shape of the chloride Sodium assist digestion Food gives​

3. Chlorine call Be Sodium and from potassium in call acidity Bazi and The organization heat.

4. It is synchronous in Nutrition the cells and grow and reproduction in name Animals.

**sucking Chlorine :** Cl Be aid with Sodiomordem selected​ Be load Defense in it's sand in from the middle is issued Be bit little in face and Sweating .

**Symptoms of Deficiencies :​​**

√ Chlorine in eating it less with Increase in extraordinary Alkaline

Reserve Blood ( alkalosis ) . Excessive in Bicarbonate , wear that Incomplete level Chlorine in the Be Increase in Bicarbonate compensated opened.

​√ Lack of salt in in food and the decrease desire eat that in development of bad caused average and Production of milk.

√ Low salt in in the power it becomes carrying it feather and human eat.

**Sources of Chlorine :** Except in the meal fish and meat, Chlorine in eating it Nutrition happy low​ Chlorine in the grass in the dry land in 3 to 25 gm \ kgm Article dry changes​ Source This The element to Most of them salt and food​

**7. Sulfur:** Most Sulfur in The body in animals in Professorda that acidity of the Cysteine and Cysteine and Methionine contains. with he two It's a vitamin Kezhn in Biotin and Thiamine and Hormonal Insulin too Sulphurean with .

**His works Sulfur :-** Sulfur an element it's important to the creation of Protein and Vitamins . Wool it's rich with​ Cysteine 4 ی Sulfur percentage​ Lieutenant iron It will be gathered and to make with hemoglobin in it's a cell The reds in the blood It is used . with it's useful Mainness blood and His works the lining thyroid​ balance liquid and The basis of acidity name Cellular and Excessive protected​

**Sulfur :** Sulfur in The rumen and the intestine load dig it up absorbed​ Starting again Bomen Be contribute with Russian Reckling to Urea - Nitrogen .

Symptoms of Deficiencies :​​

1- Sulfur shdai become be bad grow and its development body, download it weight, in difficulty tear and activities metabolic too in careless. the creation of The program microbial little becomes and animal sign Malnutrition Protein gives​ There is that Sodium sulfate Be Evidence of it's fine it's fine clever more efficient in Sulfur elemental​

2- Marda the less It becomes Hoy Production of Wool Quality bad.

**Sources of Sulfur :** All rations balanced, muscle, wings birds, horn, fur,

nail and water bile and Lick and RBC and The organs the nerve and finish Animals amount of determined in Sulfur​

**The element The little ones**

Here's the Discussion in Mineral Archeology can​

The average The minerals Location Food and Warehouse ...

**1. Iron:**

entire general iron that in in the body There is percentage 0 . 004 is​ half of it That's it chop remains RBC in shape of the home with that call Be Article Coloring it red or from momoglobin There is he The section that It remains call Be myoglobin, Enzyme Sayomcr, peroxidase, Catal and Enzymes of Tri body; liver and spleen and kidney . an enzyme as breathing in whole cells of body in shape of the myoglobin, As in whole The musclecns There is.

**Its functions iron :**

1. Such as A section in the color breathing and Hemoglo, iron in Works​

oxygen by Read​ Enzyme The active ones Be contribute in Enzymes and aid the creation of whole Membership A body ... with iron The transition plenty in It is the enzymes Cytocr and how much Flavoproteins . 4 ppm iron to formation blood and growth Chickens.

**sucking and Discharge :** Quantity iron absorbed call Be of necessity by carrying it animals​ body to secretion iron it's too much; sucking Be foot need state of affairs ready​ two theory to Continuation of sucking iron .

**2. Copper:**

copper part of it it's inseparable in Cytochrome a and The cytochrome oxides . he

Wa obviously copper in The Psychromda Be shape of the iron work does, mean in the way Valencia .

Enzymes of tyrosinase, lactase, ascorbic acid Acid oxides, Plasma Amino Oxygen, ceruloplasmin and Yz Messianaz and His works dependent This It's an element .

copper in Plasma in the blood as The complexity Protein copper, Ceruloplasmin There is sucking copper in Abomasa and the intestine it's thin naked​ phytate to eating it Ka, level height Karnathi to lithium, iron, Zinc and molybdenum absorption reduces the amount and in the way face​ Acidity stomach and secretion the intestine and default Food influence on sucking copper There is

in The organs Digestion and Intestine​ in in the metabolism copper a relationship near with​ Molybdenum . Increase Molybdenum in in the body It becomes Hoy bad absorption and carrying it salt copper .

scarce Molybdenum absorption and further carrying it the copper in body​

**hey Copper :​​**

1. Copper the catalyst it works in the formation of Hemoglo and providing oxygen

Strength sucking to it's a cell The reds blood .

2. Such as part of it particular Be Anzi copper the role of in various types of

His works Metabolic body​

3. The tumor to Coloring it ordinary hair and feather and Wool and

4. Riway to sucking iron already and sucking iron in the warehouses tissue.

**Symptoms of Copper :** Lack copper in anemia, It's broken bit Ataxia Newborns, deviation and development of extraordinary RAJ and wool, Disorders grow and ability to reproduction, seizure, slow heart, Disorders the intestine and Disorders intestine, repression resist wound in The root brain and The cut Behind .

This it's injuries Their relationship Incoordination the muscles be, and particular in lamb young.

3. **Cobalt:** Cobalt in in food to the rumens to the creation of Vitamin B12 by The microbes stomach and Intestine.

​**His works Cobalt:**

Cobalt to development and its development body Be shape regarding Be many The existence of The microbes The rumen in between Rumens part of it Tri main in Enzymes consist and a role essential It's going to be field Implementation.

The role of in the creation of Vitamins b​ , in Rumen . percentage 3rd eating it

Cobalt in Rumenda It changes to Vitamin B12, and Cobalt in DNA synthesis and Metallibosm it's acidic The Amenities .

as The transition Vitab B12 , Cobalt in Promopionada Metabolism that a colleague work does​.

**4- Zinc :​​​**

Zinc in many The tissues The body Animals found​ in higher up see density in before and hair and I gave you wool Be The tissues Tri body​ Zinc how much trial Enzyme in The body Hyde carbonic derogenase, carbon dioxide Peptidase , Gltamic dehydrogenase and in pyridinecleotide Dehydrogenases pancreas.

Except Moreover Zinc as a co-factor to plenty in Enzymes of other work does​

**His works Zinc :**

- Zinc an element Archeology it's important to development of the creation of body and development of fur and Keratinization the tissues coverage body​- because part of it main Hormonal Insulin role of the metabolism Carbohydrates. in acidity The nucleus and Vitamins a Metabolism and the creation of Protein .

- **Zinc** a role main translates in the choice of answer and Antibodies to Defense in against inflammation and be protected in Disorders liver Provide does that the poisons in the pleasures correct it must be

**Symptoms of scarce .**

1- **Mr Zinc in Animals:** on Nutrition scarce zinc, Production of Shirk little becomes, bad foster, the loss of it Teputo Efficiency Food little opens, the loss of it desire eat and etc.

2- **Lack of Zinc in Calf:** sign of scarce Zinc in Inflammation in the calf in ...

nose and mouth, stiffness joints, Swelling the feet and Parakeratosis .

3. **Zinc deficiency in in pigs**: lack Zinc in in the pig Be NASAI is recognized

grow, depressed, like eating it Efficiency Be Food and parakeratosis bad . The second is it's red is to do that appeared that The development of fat .

The sign of Moreover in pigs small and Bara at home see on Kezi little eating it Nutrition They are dry given​ level height calcium in calcium in in food that worse did​ Lack of 4- Saddle in Chicks : Delayed grow, feather ' frizzle ' , parachithorasis and an abnormality A normal one that with ' sign shocked ' namestaken​.

**Source Zinc :** Brother a source of it's rich Be Zinc . Food and warehouse providing Food contains chop Zinc .

**5- Celine:** Presence Selenium in stomach I'm rough in in his wheels Damage There is to Animals. in The lands up to 40 ppm.

Selenium in whole The cells in the body There is and density Be The presence of from 1 pan . density toxic in liver and kidney Be request It ranges from 5 to 10 ppm .

The most important The role of Selenium in in animals It is a prevention in Necrosis liver in in the mouse and bleeding currency in chicken​

**His works Selenium :**

1. Selenium to development and straight Prevention in the disease and Protection of integrity cells. Administration the changes of Selenium a relationship near Be Vitamin E and as Antidotes Ox Carener and Necessity Be The form responding to it It's a defense .

2. Construction to Prostaglandin and The metabolism it's acidic its fat Important​

3- Inclination strength there is to that with metal the heavy ones and influence Protection There is in against metal heavy ones.

4- Selenium part of it essential in an enzyme Peroxide.

This Enzyme before that be able to Damage Be The tissues body convey, peroxides within takes​

**Symptoms of Deficiencies :​​**

1. Selenium in Nutrition less Infection Be disease the muscles in sheep and animals​

2. In in the mouse scarce Selenium Laying eggs and Production of egg reduces​exudativebleeding int's a bleeding disease chick and Necrosis liver Nutrition in in the pig in One in Selenium or Vitamins E Prevention But appears

​3. Blackening It's two-way and bad It's a muscle sculpture, spot spot and bad be his muscles Heart ( disease heart strawberries ) in in the pig feel feet do​ disease heart Strawberries frequently times eating it cereal at 0.05 ppm selenium that be