

- Eg. of herbal medicinal product -> Syrups, -> They may contain excipients.
-> Natural rumedies are medicinal propo essential oils, finctures, juices and bathy on powdened Herbal drug preps are (comminuted HERBAL DRUG PREPARA TION -> 1 matural origion and consists of an animal parts, a bacterial culture, a minural or a salt. products where active inquedient is of 3000 or more active ingredient of herbal mixtures and tablets etc. product. These are defined as any medicinal product which contain one herbs and used in medicional purpose are called as herbal medicional HERBAL MEDICINAL The product which are produce from of herbal material. These are hubal substance, eathacts, PRODUCT -नुकड़े - देकड़े concentration and fermentation etc.

They also include that purp which
we obtained by processing herbal maderial
in alcohal beverages or by heating the
houseal material. herbal material.

Therbal drug preps contain mixture

of various constituents. maceration, distillation, purification, such as extraction, infusion, decoction, to physical or biological processes Obtained from 3 sources -> Obtained by subjecting herbal material (A.) wild sounces (B) cultivated sources Herbs or medicinal plant can SOURCES OF HERBS: >

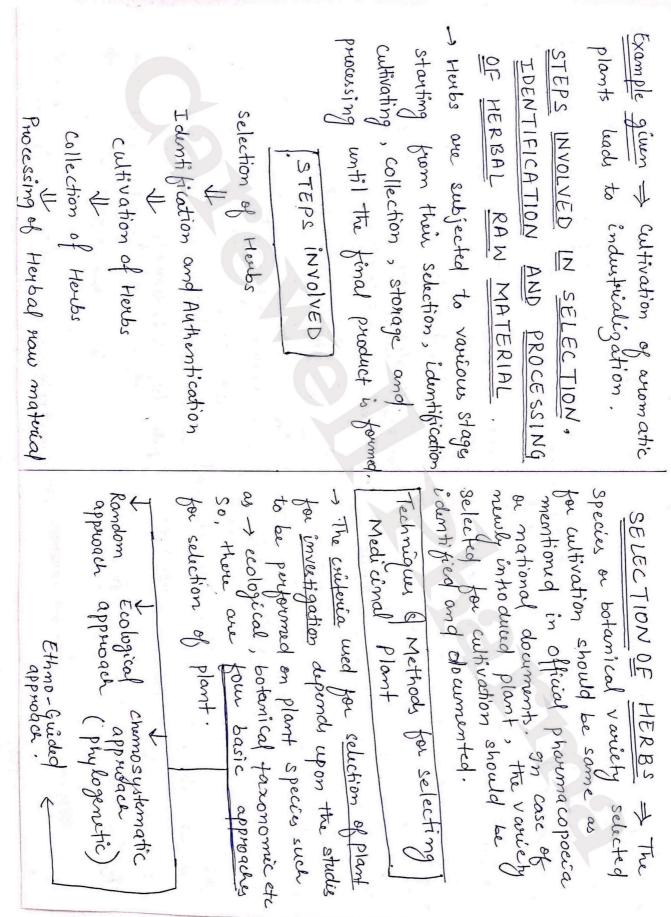
#### Pharma - A Family of Learning

Subscribe Us on YouTube

plains, haver banks etc. and they are environmental changer.

In their will forms. They grow themseltines will true is collected from wild source plants also have active constituents and into its entirection. Now sandals is suitable for plants which are abundant a threatened in south India. (A) wild sources -> Houbs are obtained in nature and easily available. herb is increased greatly that can cause its extinction and such herb Market demand from wild growing become threatened. so, there is need demand of mother can be fulfilled. At Adi > 1. less time consuming to cultivate wild plants so that increased 3. Economical. high demand of the species has resulted into its entinction. Now sandalwood is (B) Cultivated Sources -> Hents are Obtained Example given > Heartwood of sandalwood scientific techniques like tissue culture, hybridization and mutation to grow commot be predicted due true is collected from wild source and horbs. These horbs one four with proper can by human. Cone is taken Advantages > 1. Quality and purity is ensured. from cuprated sources, which we mordern Disadjointage > Quality of wild plants towards soil, climate, rainfall, temp., 4. Application of mondern scientic technique is featilizers etc. 3. Emsure regular supply of naw material.

Subscribe Us on YouTube



Subscribe Us on YouTube handom selection and collection of plant species for study according to the plant availability. When handomized the plant availability, when handomized in regions with - This type of selection provides an endles night diversity them probability of finding movel substances is higher. 1. Randomized Approach -> It is a 2. Ewbgical Approach > 2+ envolves biological astivities. Ecological relationships is a metal tool for selection of Plant searches for secondary metabolites and ewlogical environment. This approach showing defence against pathogens can be Example -> A plant or it secondary metabolish selected for the development of antimicobial species. interaction between organisms in their sourties of mew structures. for humans. , ethnopharmacology, ethnomedicine population groups using traditional knowledge about medicinal we of natural hisources and their impact on human health. This approach involves ethnobotary 4. Ethno-Guided Approach > 9+ accordance to the indication of specific consists of selecting plant species in subfamilies and genera to be investigated is successful for selection of families. selection of a species from a family or genus is based on phytochemical and ethnopharmacy. 3. Chemosystematics approach :-> The same family or genus. This approach knowledge of at least one species of

Tisimple tests by water and fine can also be used for plant identification.

The used for plant identification. material's density, solubility, colour taste by mouth. 2. Organo leptic evaluation + Hurbal by its morphological characteristics such as its shape, size, colour, surface, tenture, cross - section, odow, taste etc. touch by hands, small by material is identified by examine the herbal material with sense material or hurbal material is identified 1. Morphological Identification -> Plant change, clarity, viscidity, PH etc. organs such as observed by mose and Chemical test OR Tests: -> some herbal material 30 Authornto cation species but also in differentiating >
species but also in differentiating >
species but also in differentiating >
species of a genus.
species of a genus.
g. different varieties of same species. -s Quantitative microscopic studes help components of herbal material in order It is qualitative and Quantitative structual features, tissues, cell 4. Microscopic Identification > o under fine tests, colour of five, smoke, expansion and melting are a microscope. identification are used to identify the determination of major compound of herbal material by using physical and cremical methods. to authenticate plant species by using Qualifative and Quantitative microscopic observed. Physical and chemical identification

Subscribe Us on YouTube J - The chemical methods measure, the material are present in cell nucleus, in DNA molecule genetic markers could be colour to formation, complex formation and principitate formations, of a herbal a herbal material. used to identify exact species, subspecies, point, mething point, bitterness the demsity optical activity and smelling index of hours an attention. which choromosomes cowy genetic information improve, conserve and more effective using ONA molecular genetic markers 6. Genetic Identification > 2 dentification population and "individuals material. (molecular biology technique). Genetic of herbal material can be done by to another plant, downented methods of swent to downented in cultivation of should be followed in cultivation of -> Good agricultural Pratices and (GAP) impensive care and management.

- various factors like environment, soil, amount of chemical invigation, pests etc. Play a vitaal note in the cultivation. a proper time should be selected. Collection of medicinal or horbal plant, use of malual resources. and consurvation agriculture (CA) in cultivation of herbal material, aims to COLLECTION OF HERBS > For the material imaterial. CILTIVATION OF MEDICINAL PIANT: cultivation of medicinal plants requires du selected plant yield maximum in it, tox collection

Subscribe Us on YouTube Processing of herbal naw material involves various stages from which a counter various stages from which a counter drugs undergo after harvesting. It can be classified into primary of seconday be classified into for callection of houbs as they are trained to identify and select the houbs at a proper time. plants should be rejected , The age of plant also play a vital (300 washing (1) (1) only for the selection of herbs. Diseased (3) Panboiling (Blanching) - skilled labour should be employed PROCESSING OF HERBAL MATERIAL sumay knowing Secondary processing procedures by which the herbs are proposed like sorting of different parts. (gordling), washing, leaching during etc. Granbling (sorting) Primary Prouning Browsing => 9+ includes simple ) (2) Aging (sueating) (30) Baking / Rowting (4) Boiling / staming (6) Furning ation Sostie bying Enith mo. (2) Secondary . P. (sectioning)

Subscribe Us on YouTube with clean water. During washing and bounshing is chambiness of horvested material.

-> process is done by mechanically and sometimes done by manually. 1. Garbling a washing -> After garbling the horbal from material should be cleaned well to -) This process ensure the purity sumous the traces of rumaining soil, necessary Surface.

In this, washed the hurbal material out from the naw material. plant etc are remove or separated insects, dead tissues, non-medicinal dist and impurities like soil, dust, (sorting) :> In this process > 4. <u>Leaching</u> -> 9t is the process of sumoval of impurities from saw material by subjecting the naw material under - leaching for long duration thay lead 5. Drying >> After washing of now material, they must be drived immediately to - This proces improve storage life of 3. Parts oiling (Blanching) => After washing, summing water called as leaching. payboiling process in which they per are part in boiling water for a short period. This process also used for to excessive joss of other ingridient natural and prevent contamination so time duration of leaching should be material of herbs. Controlled. certain herbal now material undergo removing outer coats and covering

#### harma - A Family of Learning

Carewell Pharma
Subscribe Us on YouTu to a quick to prevent a former to prevent a former to prevent colours of components from being the med aromot. -> Plant material should be dried after and alterioration of active constituents. beg order to prevent microbial growth. · Duying under sunstine -> turbal material enjy the which may deglade the active sumpre moisture and reduce microbial Confamination inspections o woshing in order to prevent the degradation subject to open and direct sumlight in subject to shad with or without artificial toxiaty of sectioning > After duying, the aware to horbal material is cut of sectioned herbal material is cut of sectioned herbal material is cut of sectioned -, voiries sizes can be obtained of boxign substances, reducing the toxicity of hurbal material etc. is secondary Procus include techniques such as extraction, in festation, rumoval are convenient for storage as wello processing vary from one hers to another herb depending on nature of chemical constituents I and therapeutic depending on the extraction procuse to be om of spray. properties Secondary Processing) -> The secondary · Duying by artificial heat - Drying into smaller sizes because small sizes the herbal material in an over, , va culm

Subscribe Us on YouTube

SC	eribe Us on YouTube
	storing the nonvesting of is generally done under sun or in shade for a specified time after housesting of in shade for up to a year. During the process of aging of encusive water is evaporated and enzymatic reactions may occur to alter the chamical composition of the heats and the heating the heating and duration of the heating the heating and duration of the heating to another until drug develops material in water or any the solving solvent such as vinegar, of the liquid solvent such as vinegar, of the sickerfect of boiling minimised the sickerfect.
	and enhances therapeutic effect of herbal material.  5. Stir feying > It is process in which pot of trying pan and continuously stirved for a specific period under the furnity of sometimes the horvested for sometimes the horvested is commonly employed for some is commonly employed for some is commonly employed for some is commonly employed to purpose of medicinal horbs for the purpose of insection and preventing the growth bleaching and preventing the growth.  Of insects and moulds.

Subscribe Us on YouTube

HERBAL DRUG

TECHNOLOGY

TECHNOLOGY

TECHNOLOGY

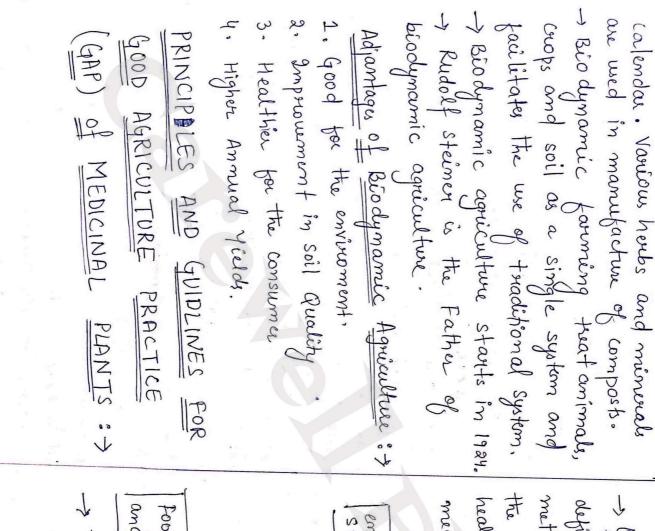
TECHNOLOGY

BIODYNAMIC AGRICULTURE
BIODYNAMIC AGRICULTURE
in cultivation of medicinal plants
in cluding organic forming.
including organic forming.
including organic forming.
in edicinal plants: Bioperticious/Bioinsecticides.

Biodynamics devived from two Greek words thios which means cenergy. So, Biodynamics which means which means cenergy. So, Biodynamics which means am antain life?

The biodynamics is a method of forming environment and built a healthy living environment and built a healthy living soil, in order to produce food that mounishes, vitalises and helps to develop humanish. Pio dynamic forming totally replace the Biodynamics furtilizes by microbial (biological) chemical furtilizes by microbial (biological) and emphasizes the use of manures and composts. It also emphasizes the use of astronomical sowing and moon planting astronomical sowing and moon planting

Subscribe Us on YouTube



Economic food safety Land of Prince are the four pillars, of GAP.

-> GAP (400d Agriculture Practices) are defined as collection of specific and good methods applying to the agriculture for the production of safe, qualitative, healthy and useful crop, food and medicinal product.

www.carewellpharma.in

Carewell F
Subscribe Perticidal residues and other unnatural ma - A principles of good crop husband ary

- A be must be followed in cultivation.

- Soils and I soil. , various factors like environment, soil, botanically, plant variety, chemo-type is contaminated by studge.

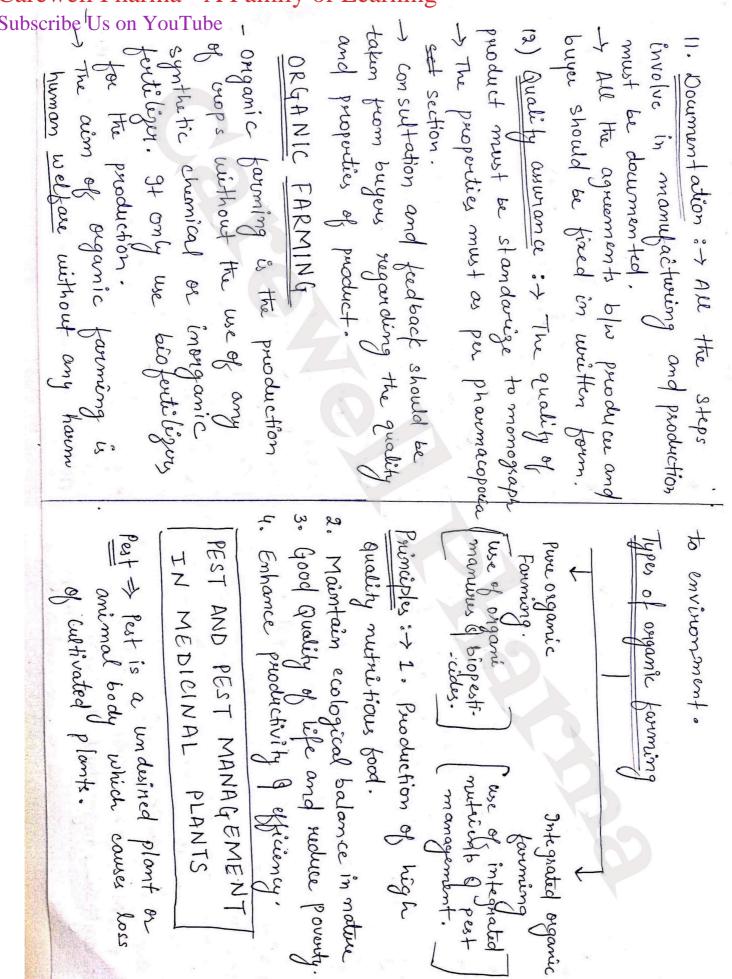
and by its origion.

The material should be 180% traceable. 4. I wigation of I will attion water - Morphological characteristics; organisheptic should be bue from confaminations evaluation and tests are also used for such as kacker, heavy metals, pesticid 2. cultivation: - cultivation requires 1. seeds and propagation material :> - seeding materials are identified by intensive care and management. material identification. The guideline described for GAP -> Irvigation so should be minimized - testicides and herbicides should be > The use of pesticides and herbicides be adapted to enable good plant growth and must be covered but whenever -> Medicinal and aromatic plants such as faceus, heavy metals, pesticides, houbicades and other chemical substances. as per the needs of plant. -> The use of fectilizers and other chamical product should be as minimum required. 5. Crop Maintenance: > Tillage as much as possible and only applied should not be grown in soil that (prupa of land for growing coops) should as possible avoided as far as possible.

be be cleaned.

All processed material should be I inspected in order to maintain standard, working in GAP should be be educated steps such as working, drying, freezing etc. Buildings or area used for processing should be clean, abouted 58. Packaging: > The product should quantity and quality.

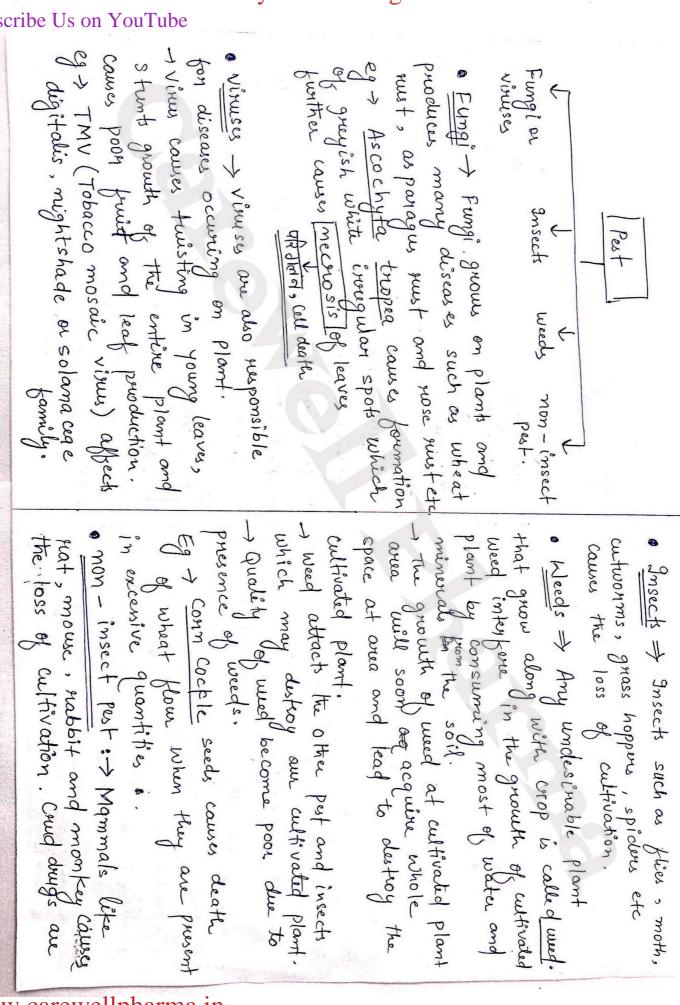
They resting should be done in optimum condition as met soil, nain, high -> processing mexercial or equipment must and provided protection for the harvested cuop from birds, insects and animals. 6. Harvesting: + Harvesting should be done when plant are in their best 7. Průmovy processing: > 2+ includes has to be documented. be packed in clean and dry bages humidity. and cases. should be used. - personnel should free from infectious disease -> Packed materials stored in well closed -> personnel have knowledge of personal 10. staff requirements -> personnel 9. Storage and Transport: > Packeaged Temp. for FALLA product -> 1-5°C material should be stored in dry and -> Proper care should be taken in remable -> The label must be clean, permanently packing so, that they do not cause good arration provided areas. Contamination. fined and made from non tonic material. containers at specific temp. hygiene. " Frozem ", ->-18-20°C



www.carewellpharma.in

#### Pharma - A Family of Learning

Subscribe Us on YouTube



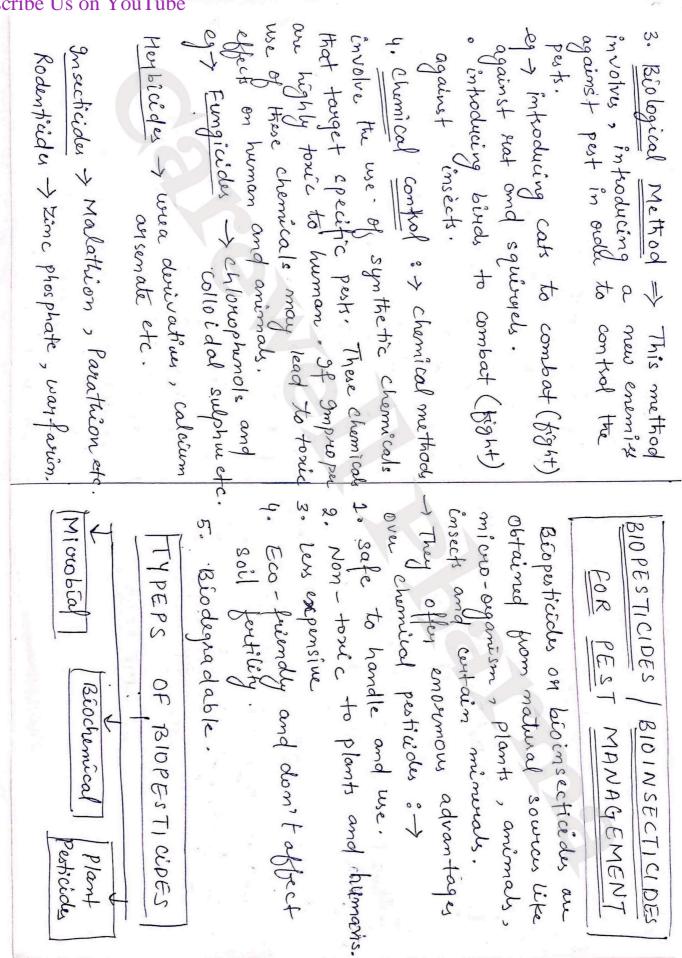
Subscribe Us on YouTube -> Rodents one responsible for transmitting disease (in cultivated plant) from which they are suffering. Different techniques and methods are often contaminated due to facial Content and hair from next and mice followed to control pests. PEST MANAGEMENT AND METHODS AGRICULTURAL METHOD MECHANICAL METHOD BIOLOGICAL PEST OTI CONTROL PEST CONTROL METHOD METHOD METHODS inter exopping, sedanisation etc,

we of organic perticular, using perticular, using perticular, using perticular, using perticular, using perticular, and there can be diversity etc. all there 1. Mechanical Method > 9+ includes simple techniques like hand picking, burning, using of pert traps (Rats and mouse traps).

Insects and mammals.

Insects and insect and animal. order growing of different crops in field of year after year, avoid exhausting of soil fertility and conter! - construct & wave houses in order to protect cuop from animals. a. Agricul tural Method => 9+ involves methods are used in order to manage various methods such as europ restation, Crup notation > Crop notation is pest so, that the cuop must be safe. fertility and control useds , pests diseases.

Subscribe Us on YouTube



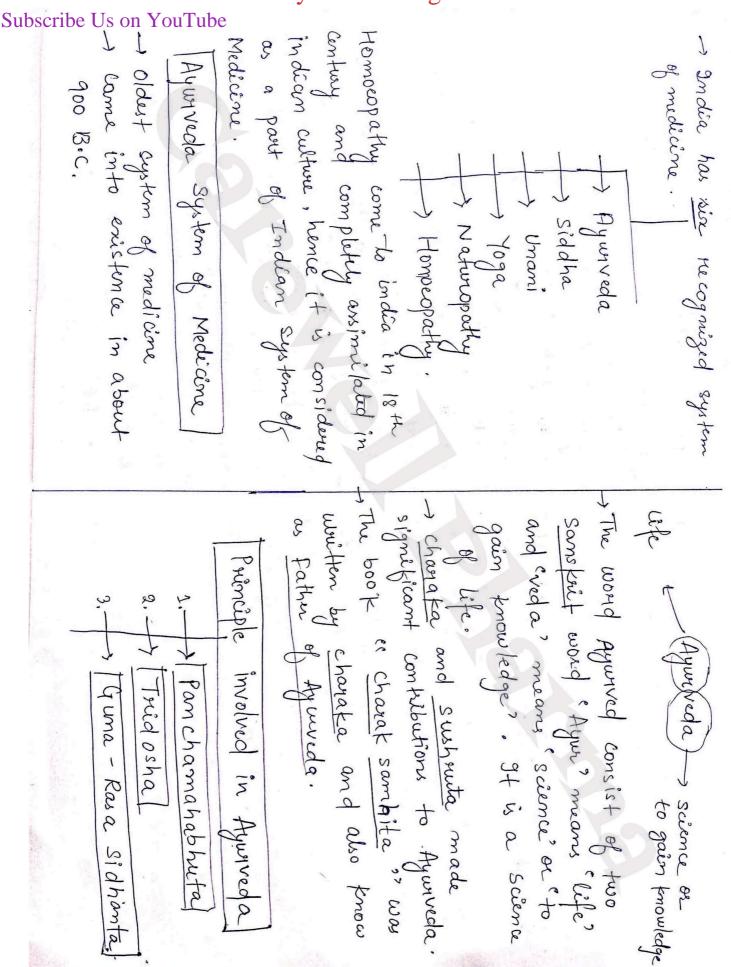
Subscribe Us on YouTube

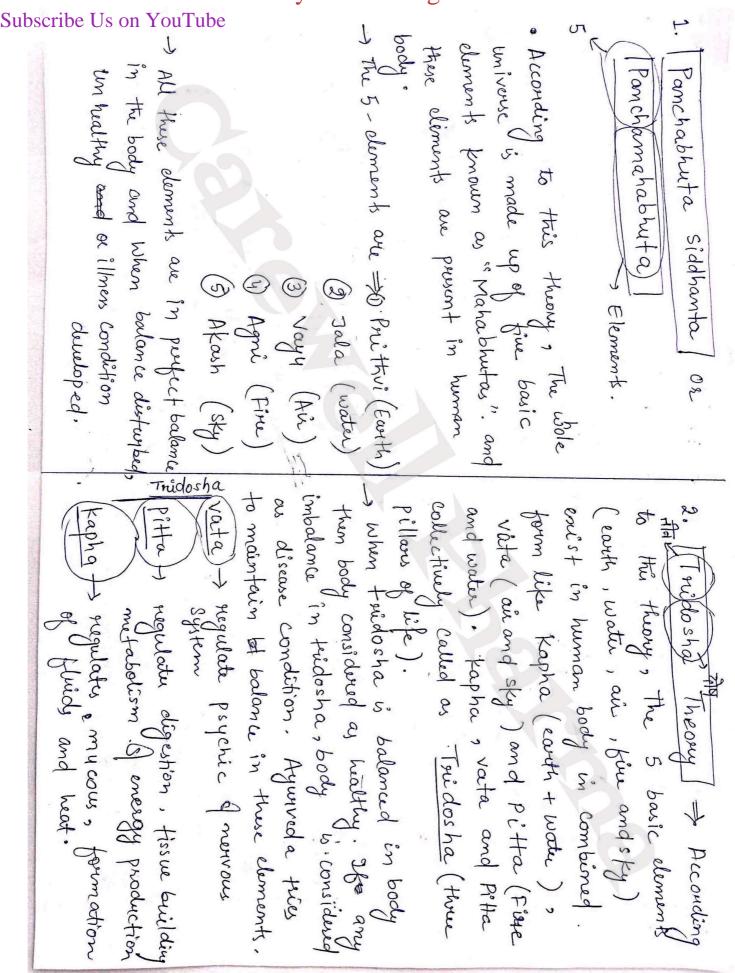
that directly field the pest. ser phenomones -> Biochemical posticides contain biomolecule sugulators etc.

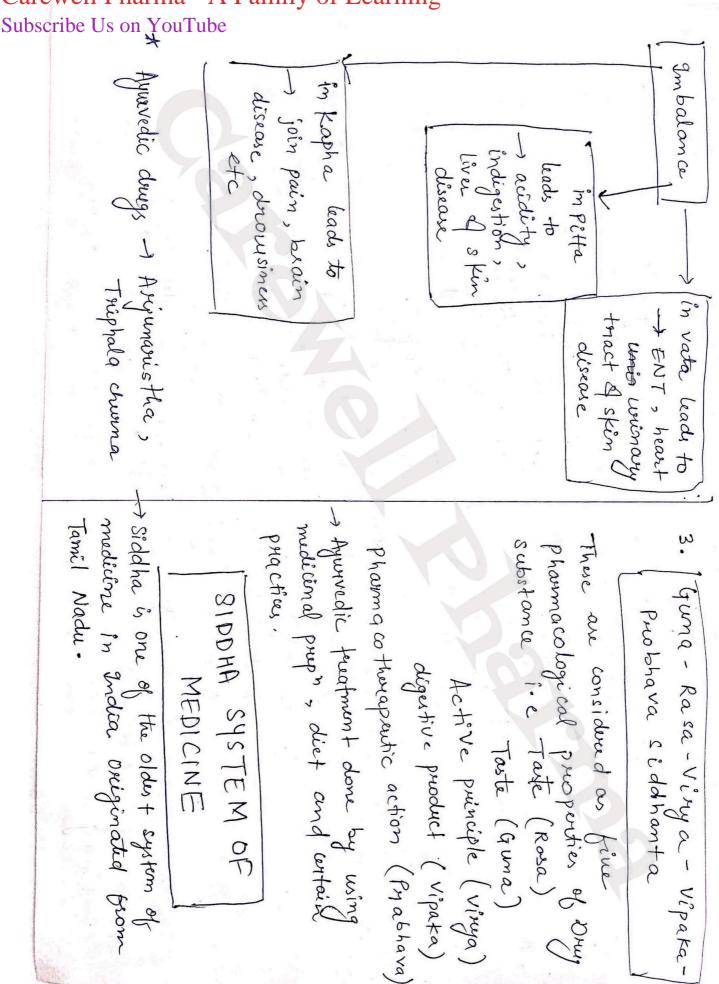
-) Even bûp publiciells need to be animals which have ability to control the perts by non-tonic mechanism. There include substances like insect 2. Microbial Perticides -> Puticides maturally occurring chamical substances which are obtained from insects and approved of registered before they can 1. Biochmical Puticides -> These are extact, natural Ensect growth sugulators etc. Phenomones, semio chemicals, Plant be med, sold or supplied. bacteria, fungi er virus, which attack specific pest and species. that contain milow - organism like Plant Perficides of Plant perticular perticidad which have perticidad and insecticidad properties. They com grown along with cultivated plants to control insects and can be used in Exemple > Niem, To bacco, Ryania powedered form or spread form.
( after extracting constituents from them). There are some fungi that act as becoherbiddes (control weeds) eg -> Biofungicides -> Trichodorma Biohenicides > Phytophthona Bioinsecticides -> B. Huving inesis.

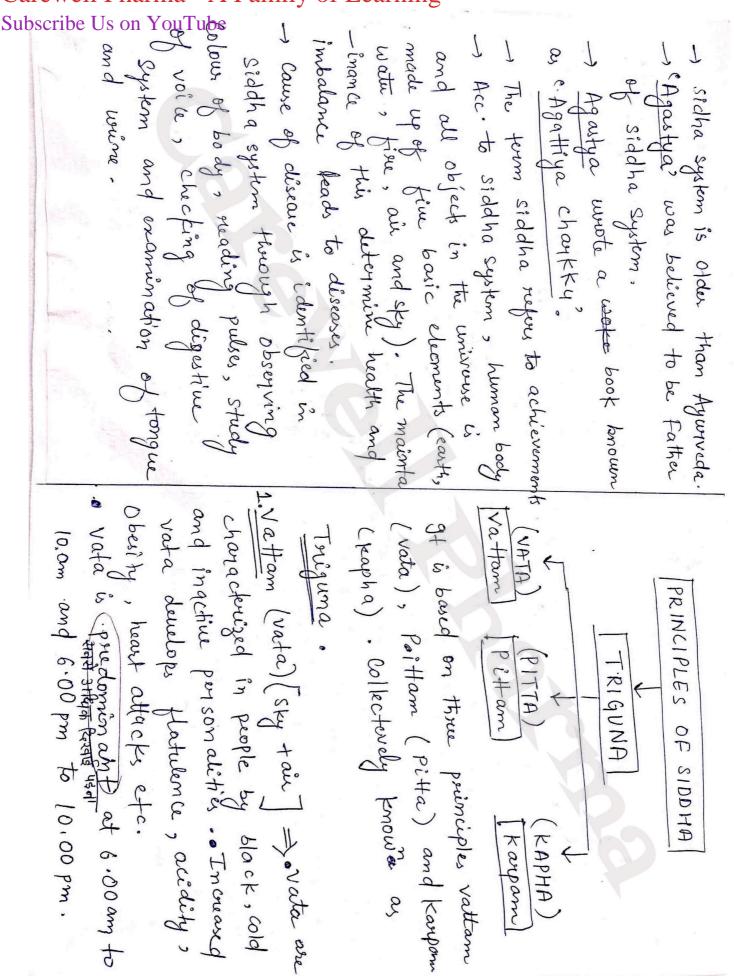
Subscribe Us on YouTube INDIAN HERBAL (Z - 1 - disation of Ayunvedic Basic primiples involved in Ayurveda, siddha, churna, Lehya and Bhama. and Asawas, Shutika, SYSTEM OF MEDICINE Preparation and standor formulations vig Aristas Unani and Homeo Pathy. TECHNOLOGY System of Medicine.

The system include knowledge, approaches and benefits of plants and minerals which are used in medicines -> In Japan, allopathic physicians prescrib -> Traditional system of medicine meets cure the illness > Also known as Indian in origion and the system of traditional medicine to the patients. and therapies in order to treat and culture, both are known as Indian outside and got assimilated in Indian in most of developing countries. medicines which are come from other the health case needs of large population System of ASU medicine, folk TRADITIONAL In digenous system of system and Indian Ayuwada, siddha, Unani SYSTEM OF MEDICINE









Carewell Pharma Subscribe Us on YouTube In beautonalities.

Subscribe Us on YouTube In beautonalities.

Start by a Greek

Carewell Pharma Subscribe Us on YouTube In beautonalities.

Start by a Greek

Carewell Pharma Subscribe Us on YouTube

In people

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Open and in people

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in fre

Carewell Pharma Subscribe Us on YouTube

Omiginated in free

Carewell Pharma Subscribe Us on YouTube

Omiginated in free

Carewell Pharma Subscribe Us on YouTube

Omiginated in free

Carewell Pharma Subscribe Us on YouTube

Omiginated in free

Carewell Pharma Subscribe Us on YouTube

Omiginated in free

Carewell Pharma Subscribe Us on YouTube

Omiginated in free

Carewell Pharma Subscribe Us on YouTube

Omiginated in free

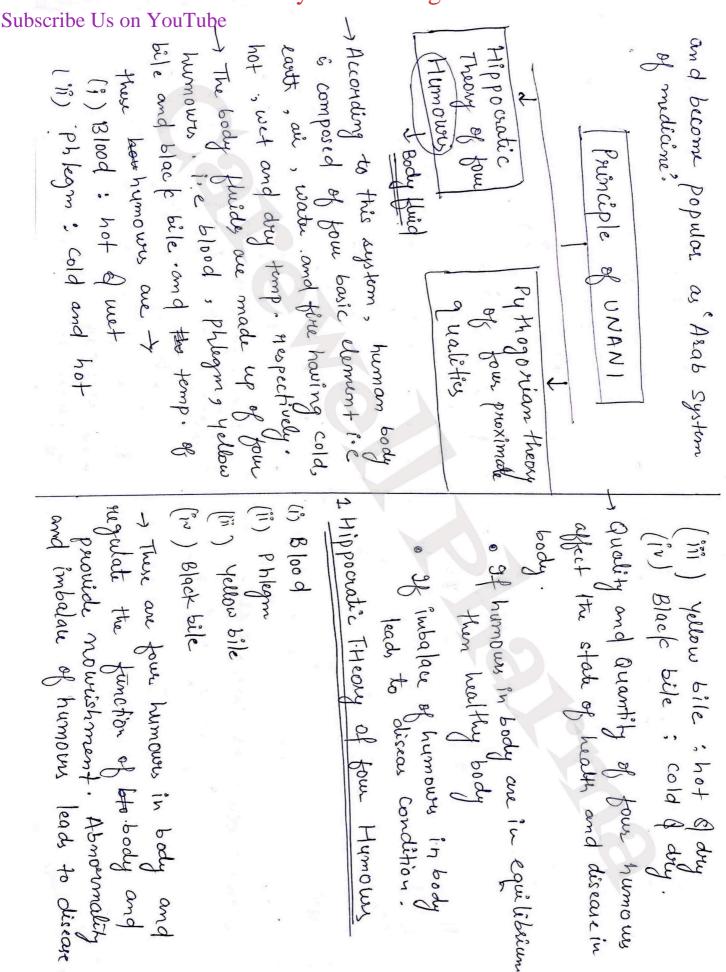
Carewell Pharma Subscribe Us on YouTube

Omiginated in free

Carewell Pharma 
Omiginated in free

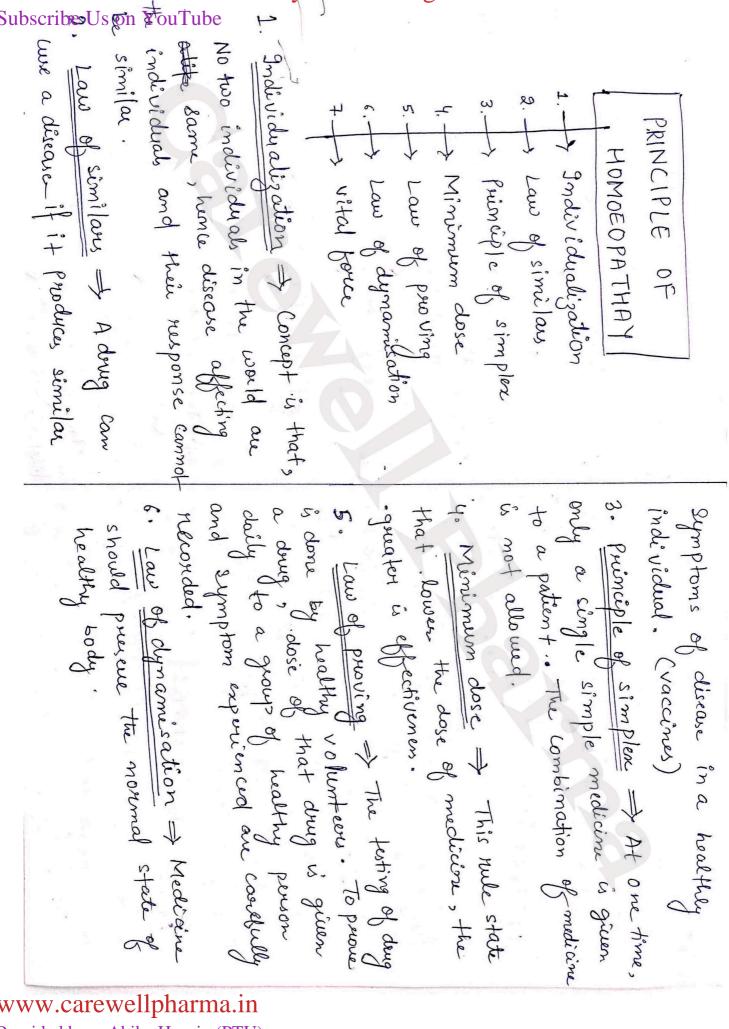
Carewell Pharma heart attack, high fever, anaemia, ) system is based on two principles/ pursonality.
Invuesed pitta shows early graying of hair, neddish eyes, burning. by whitish complexioned hot Chest, an aemia.

Pita is predominant at 10.00 am to 2.00 pm and (0.00 pm to 2.00) Pitlam is characterized in people Pittam (Pitta)/Fine Quater] > - Drug of siddha system. -> stort by a Greek Philospher -> oniginated in Greece. - System was later developed by Arabs e Chuma - The medicions one prepared in four proximate qualities. mineral, metals (mercury, gold, hymown and Pythagorian theory of theory -> Hippo cratic theory of foir silver, sulphu, zin, coppor, aluminium, Lorax and ousenic). Bhosma (calcinated drugs) siddha by using plank, animals, Ceulligai (Pills 6 Tablets) UNANI SYSTEM OF MEDICINE ( Powder)

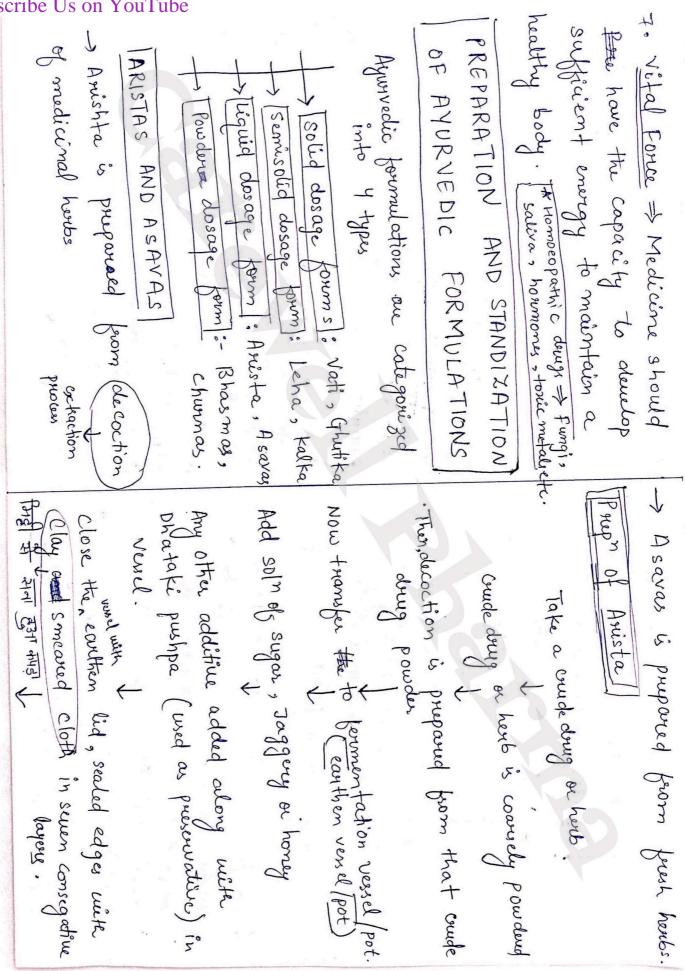


Subscribe Us on YouTube

Temow sile - Hot of dry and supresent four basic elements of burrense. Blood . -> 4 humons qualifies: > include hot, cold, moist present in human body in Combinations and dry. Thuse four qualities are Unani drugs -> Habb, Ques, safoof Imbalance leads to cold of moist Hot amoist -, majoon, Arg etc t of four proximate disease condition Earth Pire 4 element water えな Law of similar ing Elets Likes con that cause symptoms in healthy person, that doug can also cure those same symptoms in sick person. - Homoe opathy comprises of two words -> "Homoe o' means similar" Chemist in Germany. -> It is new system of medicine . (s) developed and Pathos means esuffering, so, homoeopathy is a system of similar likes]. Means if a doug substance suffering. I samuel sy on . samuel in eighteen century. HOMOE OPATHIC Hahnemann -> physician of OF MEDICINE SYSTEK



Subscribe Us on YouTube



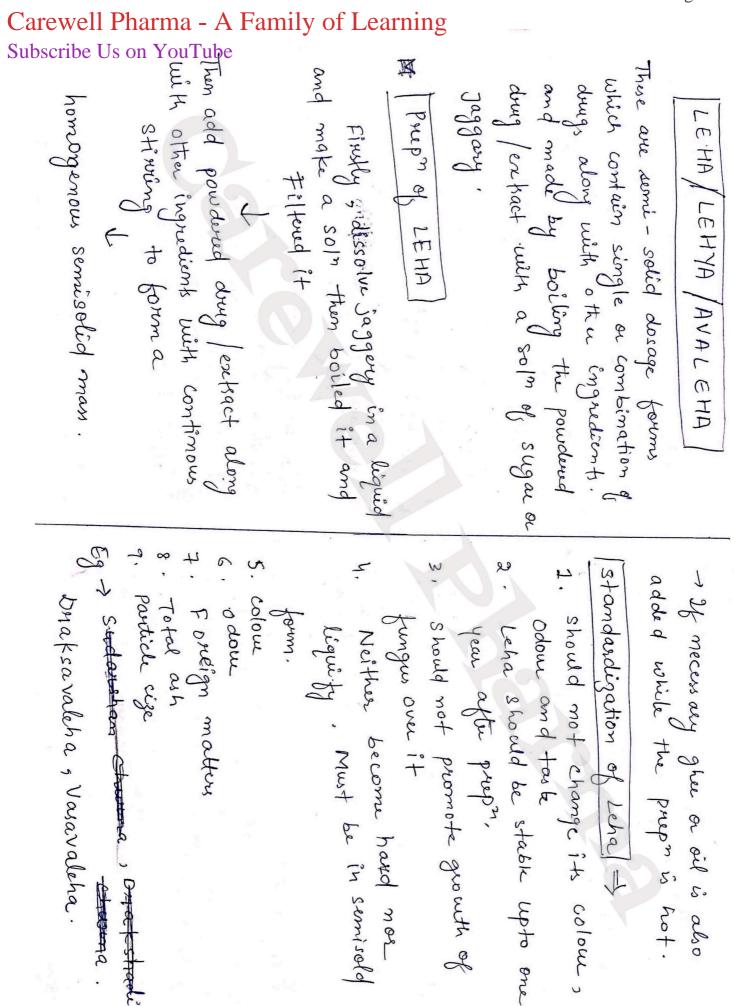
Subscribe Usion YouTube in another confairer while leaving a solid behind. promoved carefully and content of contained out [is process of termentation Transfer is complete or mot? After a specified time earthern lid is container is placed in (heap of paddy Decomt the bluid and filter and kept for 2-3 days. Constant temp. during beunnemtation Boiled the decanted fluid twitter fumentation Fill in bothe and seaf Arishta to avoig Any other additive added along with phataki pushpa (which is used as and sed its edges with cloth smeared close the vosed with an earther lid Add soln of sugar, Jaggery or homey Guide drug or horb is coarsly poundered Pup of Asavas preservative) in versel. Clay in seven layers to fermentation vend ( Pot a courde doing on boush houbs missed here, and rest phocus is some

Subscribe Us on YouTube After a specified time earth lid is removed 2. Both have aromatic of alcoholic is examined out [is perocens of beamentation carefully and content of the container Decomp the fluid and filter and kept container is placed in heap of paddy for specific puriod of time! for 2-3 day complete or not? heap of paddy is used to maintain ] constant temp during furmintation] turtue Asavas the deconted fluid to awold obtain. Fill in bottle & \* Don't need to write values of standardization parameter bog it vary from deeing to drung. q. Boiling point 3. Both do not become some upon 1. Assista & Asavos both are clear liquid 11. Alcohal content - 15%. V/V 7. Ph -> 3 ±1.50 6. Odom - Anomatic 4. Taste is playonoid 5. Colour - Black or dark brown s. specific gravity at 25°C Standardization parameters for Arishta and A savas viscosity - 3.53 cps preps without any boam at top. Standing

Subscribe Us on YouTube (vati) tablets and pills (ghytika). They contain single on combin ations of hurbal, duied a made into time powder. Drugs and other ingredients are mined. minerals or animal drugs These medicines are in the bown of Prep of VATI and Ghutika) => them . Put into motax and ground to make a soft past with the prescribed bluid / liquid. The drugs of plant origin are decied, (As per mentioned formula) (Tablets and pills VATI & GHUTIKA 9. - Both should not lose their original 18. I Both should be stable upto a years 10. + 9f they contain sugar salt, they should be protected from moisture. after prup. colour, odour, taste. 8-fandordization of vati & Ghutika For standardization (thutik & vati should evaluated on following parameter -> 1. Hardness Tablets (Vati ) and pills (ghutika) one made / prupone from soft paste and turn decied in cumlight. Disintegration Dissolution Friability Colou Ddow

Subscribe Us on YouTube other ingredient In formula) whach are used for preprof churina are duced separately The day and other ingredient (mentioned) Prepr of chuma Then passed through sieved (meshino. 80) to get uniform particle size. or combination of dough along with Then made time powered of a each dosage form which contain single CHURNA -> vati -> Gandhaka vati and Ghutika -> Pranda gutika and 1 => 3+ is powdiend sankha vati Lasunadi gutika 2. Total our value -> 4.76 3. Alcohol souble > 7.07 ± 0.09 1. 94 - 7 + 11 5 Density > 0.1-0.7 2/ml 4. Moisture content . 6. Finer the powder, better is its 7. chumas are stable upto 2 year standardization &. charmos must be free flowing powder and should not potency of therapeutic value. Eg > sudaysham chuma, Drakshadi Then these doing positiveds are mixed with each other accurately to become moist. uniform powder | ie chuma of chuma ->

## Pharma - A Family of Learning



#### Pharma - A Family of Learning

