

Principle from mushroom:

mushroom management means that workers' curiosity and self expression are not supported.

2nd Cultivation of following types of mushroom

milky mushroom:-

milky mushroom can be grown in the temperature range of 25°C - 40°C - However, for best yields 25°C - 35°C is necessary.

This mushroom can be cultivated from the month of March to October in major states of India.

Oyster mushroom:

shredded / chipped cotton stalks



Decant the water and boil (80°C) for 2 hours

↓
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water in poly bags (15 x 60 cm) in

prepare mushroom

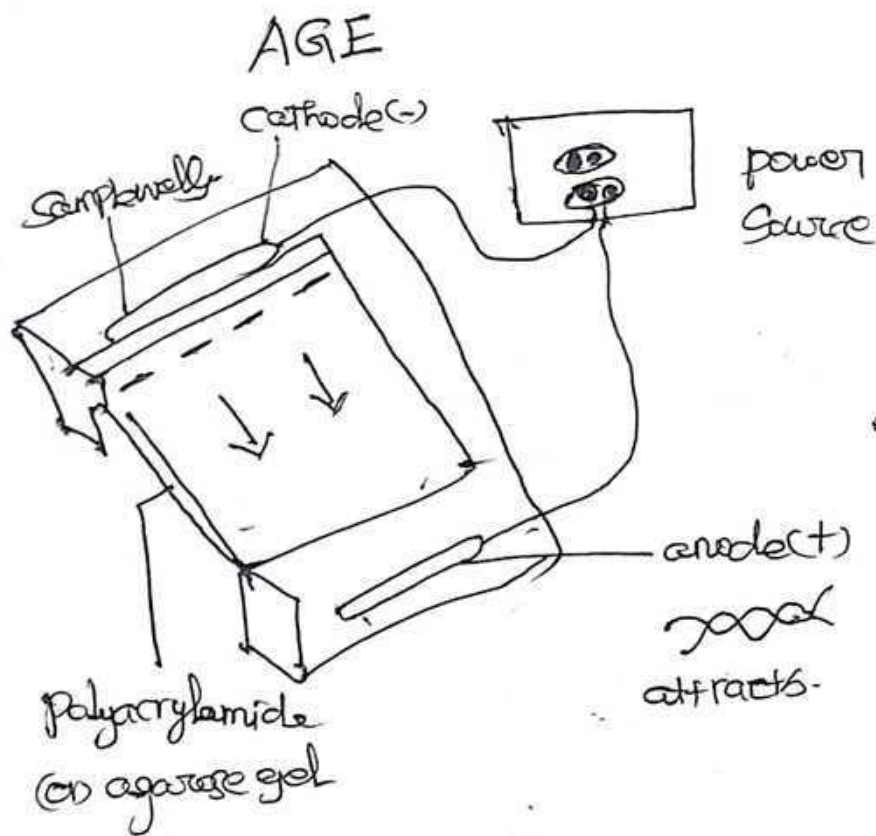
layers of 2 inches to bed



sprinkle mushroom spawn at the rate between the layers of cotton stalks

3.23
II

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Agarose gel electrophoresis is a method of gel electrophoresis used in biochemistry, molecular biology, genetics and clinical chemistry to separate a mixed population of macromolecules such as DNA, RNA or proteins in a matrix of agarose.

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(i) Density

- * different wood having different use, because the properties of wood differ from species to species.
- * Most woods have specific gravity less than 1.0
- * They are lighter than water and therefore float
- * because they having numerous air spaces.

(ii) Hardness

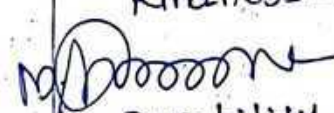
The wood hardness is dependent on weights degree of seasoning, and the structure of the wood elements.

wood elements:

Vitality → life, energy

growth → growing

Kindness → gentleness → ~~softness~~ 


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Durability → ability of woods to resist decay (தாது),

Insect, infestation (தாக்குதல்), chemicals,
Fungi and marine organisms.

- * The most decay resistant species are often used where decay could be a problem.

* Catalpa, cedar, chestnut, black locust, Osage orange tree are resistant to decay.

* ~~Osage~~, ~~orange~~, ~~cedar~~. Aspen, cottonwood,
Fir (coniferous tree), willow tree.

Remote Sensing Uses:

- * It gives Mosaics in vegetation patterns of forests, cultivated plants, shrubs, barren area, grassland, etc in locality
- * It gives Mosaics in vegetation patterns and boundary conditions.
- * It gives information about species composition, interactions, and plant succession in locality.
- * It gives the arrangement and complexity of vegetation in the locality.

22.03.23 Major And Minor products of forests:-
(4 hours)

* The Major forest products are timber, fuelwood, and a number of other non-wood products

There are :-

⇒ species

⇒ wood

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⇒ five Major Products

* The minor forest products are Gums, underground the simplest value products like such as

⇒ Gums

⇒ Species

23-3-23

III. 2 hr

Spices & Condiments
Cinnamomum zeylanicum

Lauraceae - used as spice

Cardamom - Elettaria cardamom
used as condiments.

Renn - exudation part of various essential oil -

Asafoetida - bark of the tree exudates
Ferula asafoetida.

Oil yielding plants

Caster seed.

Ricinus communis

Euphorbiaceae

✓ Caster oil

✓ Contraceptive pills

✓ Lubricant

✓ Washing powder

Groundnut.

- Arachis hypogaea L

Fabaceae

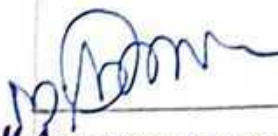
Peanut butter

groundnut candy

Vegetable ghee

Peanut oil

oil cake.


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Selaginella

→ Sporophytic plant body - root / leaves and Rhizophores.

Roots → adventitious roots - dichotomously branched -

Rhizophore - lower side of the stem, unbranched cylindrical unbranched - leafless structure.

Stem: erect, dichotomously branched - leaves - microphyllous - sessile and simple.

ovate - lanceolate - ligule projection - hemispherical foot like - glossopodium - Ligular pit - tongue like - S. vogelii - fan shaped - S. martensii

Reproduction:

Vegetative reproduction -

→ tubers, bulbils - dormant buds - and fragmentation -

→ tubers - aerial - apices of apical branches - spores - Heterosporous - 2 types of spores - megaspores and microspores - megaspore - female gametophyte, microspore - male gametophyte - dimorphic - sporangia - sporophylls - microsporophylls and megasporophylls -

Strobilus - sporophylls - aggregated apex - main stem Cone - on strobili. sporangia are stalked structures 2 layered Sporangial Jacket - gametophyte mother cell of gametophyte -

Male gametophyte - Female gametophyte - Fertilization - Embryo developed.

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