

PEZIZA

Systematic Position: —

DIVISION — Mycota

Sub division — Eumycotina

Class — Ascomycotina

Order — Perizales

Family — Perizaceae

Genus — Peziza.

Occurrence : → (i) It is commonly saprophytic cup fungi found in dung, decaying wood and organic matter, rich humens in rainy seasons.

(ii) Only 8 species have been reported from India. P. repanda, P. pluckalina, P. vesiculosa etc. are common species.

STRUCTURE

(i) Cups are fruiting body, sessile and sub-sessile fleshy, large, bright in colour which produced by hypha, growing on substratum.

(ii) Each branch is septate, uninucleate.

(iii) Mycelium is branched and cup shaped fruiting body is called "Apothecia"

(iv) Apothecia are fleshy, smooth, whitish and pale brown in colour.

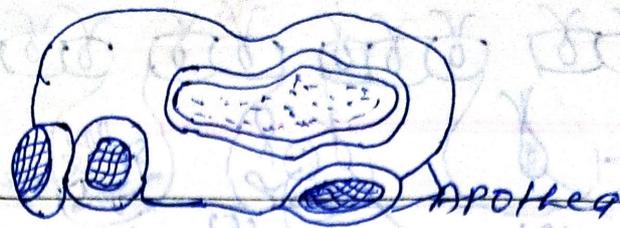


Fig - Perizog with apotheca.

REPRODUCTION OF PERIZOG

* There are two types of reproduction

(A) Asexual Reproduction

(B) Sexual Reproduction

(A) Asexual reproduction: — By Conidia.

(i) Conidia produced on Conidiophores.

(ii) Conidiophores are produced by septate, erect, 3-4 hyphal called long produced.

(iii) After detaching Conidiophore Conidium germinate in suitable condition.

(iv) Thick wall chlamydozooids are produced the hyphae which germinate to give rise a new Perizog.

(B) SEXUAL REPRODUCTION: — (i) Fusion of two nuclei takes place in vegetative cell

(ii) Nuclei are Somatogamy (+) and (-) nuclei

- (iii) Dikaryotic cell Ascogenous hypha binucleate developed into ascus.
- (iv) Each cell Ascus develops into 8 Ascospores.
- (v) Cup shaped Apothecium divided into 3-layer uppermost layer is hymenium. Elongated asci arranged in palisad manner between 2 Ascus is paraphyses.
- (vi) Second layer is excipulum is made up of pseudoparenchymatous tissue. It is the larger part of the basal apothecium.
- (viii) Ascospores are liberated in a Ascus burst under dry condition.
- (ix) Cloud of spores are called puffing.
- (x) Ascospore are smooth, hyaline, and ellipsoid.
- (xi) Apex of Ascus germinate in damp condition and developed a new hyphae.

Fig: -

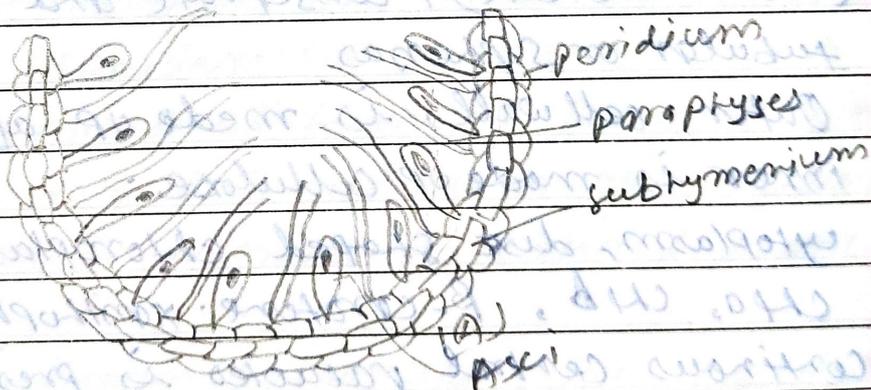
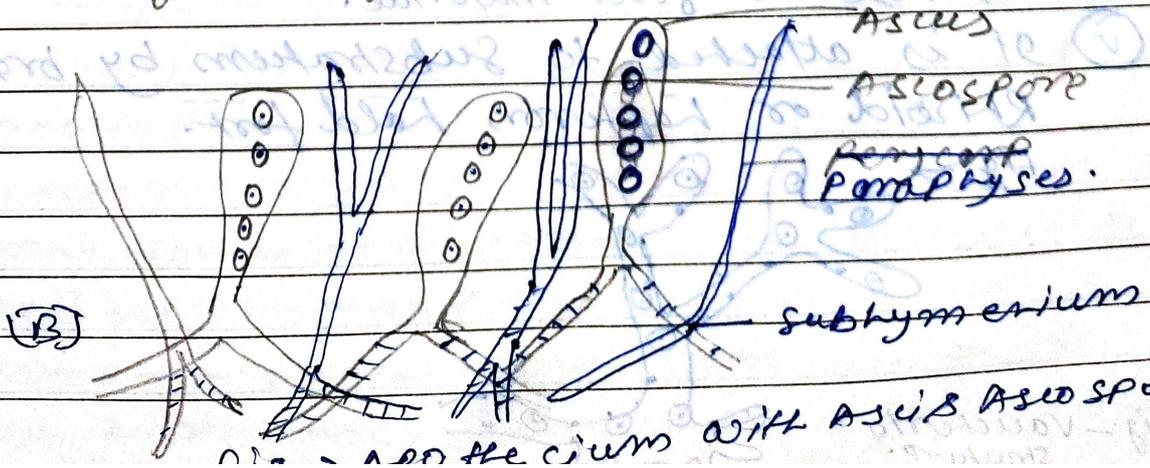


Fig → v.s of Apothecium of Peziza.



(B) - Apothecium with Ascus Ascospore.