

# Puspa Shrestha

Best Quality Resource Site for Class 11 And 12 Students  
(Based on Updated Curriculum 2077)

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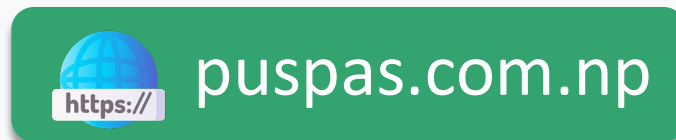


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## EXPERIMENT NO-6

Date-2077/10/27

AIM: TO STUDY VEGETATIVE AND REPRODUCTIVE STRUCTURE OF MUCOR.

### COMMENTS

Mucor is a saprophytic fungus. The vegetative thallus is a white cottony branched thread like mycelium. The unsepted coenocytic mycelium encloses many small nuclei and vacuoles.

It reproduces asexually by the sporangium formed at the tip of erect aerial hyphae, the sporangiospore. The spherical sporangium is divided into peripheral fertile portion and the central sterile dome like columella. Thus a large number of black small pores surround the columella. The spores are released by the rupture of sporangial wall.

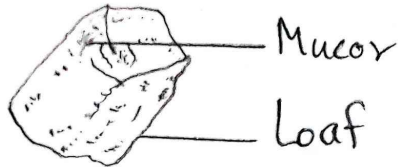
Mucor reproduces sexually by conjugation. Two hyphae of opposite strain come close and produce small outgrowth like progametes facing each other. The contents of each progamete separates into apical multinucleated gametangium and basal suspensor. The progametes elongate to touch each other. The partition walls dissolve allowing the fusion of gametangial contents. The diploid zygospore is formed as the result of gametangial fusion. The zygospore is a large dark, thick-walled warty structure.

# TO STUDY VEGETATIVE AND REPRODUCTIVE STRUCTURE OF MUCOR

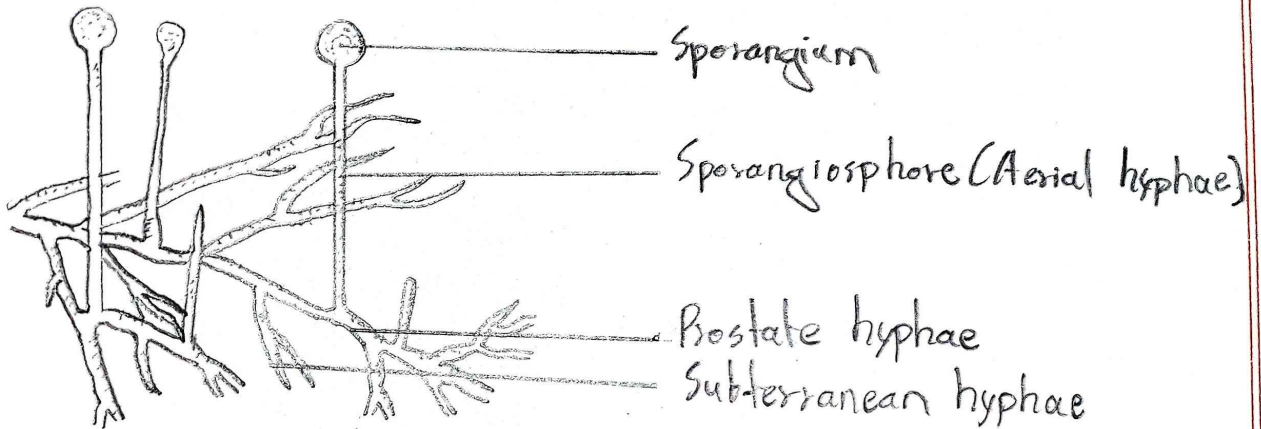
Roll No : 11  
Date : 20/10/20

## Systematic position

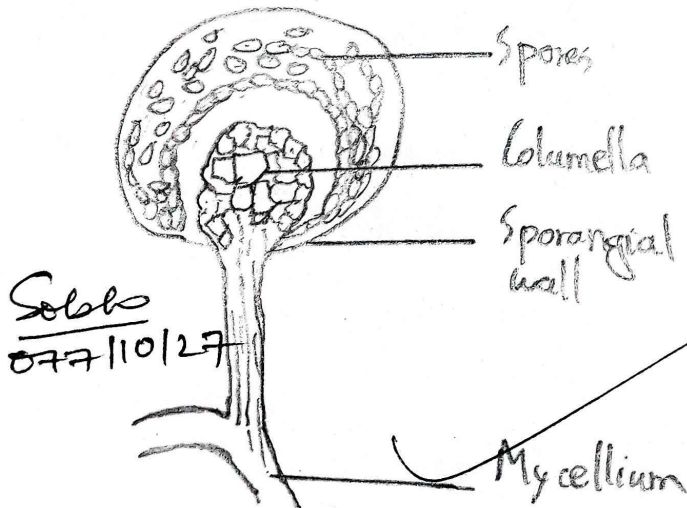
Kingdom	- Mycota
Class	- Phycmycetes
Order	- Mucorales
Family	- Mucoraceae
Genus	- <u>Mucor</u>



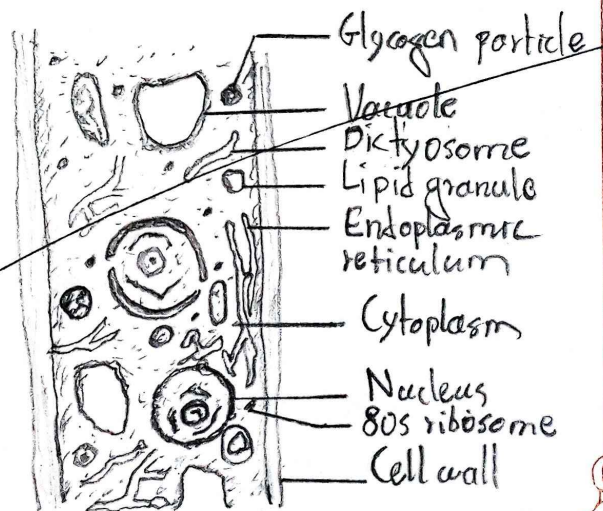
Habit Sketch



Mycelium of Mucor with Sporangium



A magnified Sporangium



Part of hydra showing detailed structure

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