



Lecture No.: 22

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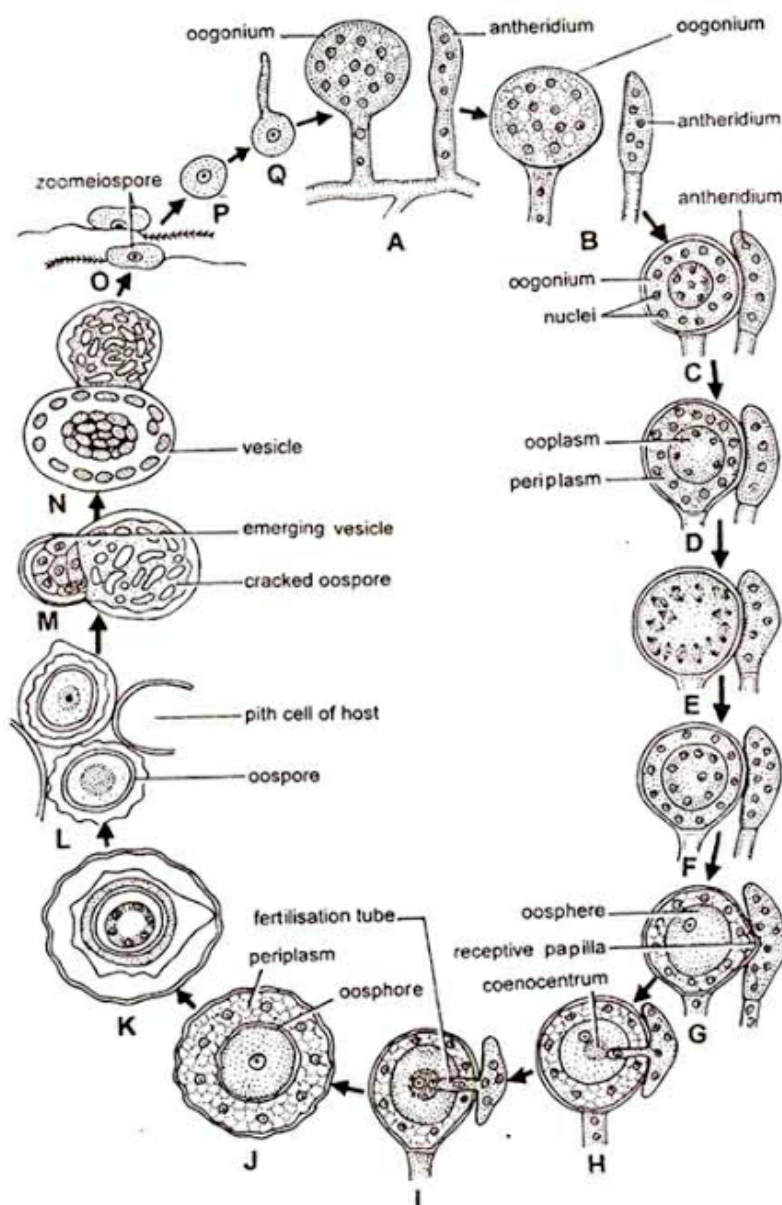
CORE CONCEPT OF  
Group B - Mycology

HONOUR'S PART 1  
Paper - 1

## LIFE HISTORY AND ECONOMIC IMPORTANCE OF CYSTOPUS (ALBUGO) - II

### 2. Sexual reproduction -

In this process Antheridia and Oogonia are formed after the completion of sporangial development, when mycelium are buried in the host tissue. The club-shaped multinucleate Antheridium is applied to the side of globuse multinucleate Oogonium. During fertilization the wall of Oogonia at the point of the contact of the Antheridium becomes thin. The



*Albugo* : Sexual reproduction



Antheridium produces a fertilization tube which passes through the thin spot of the Oogonial wall and Periplasm reaching the multinucleate Oosphere. The fertilization tube enters Coenocentrum rupture and discharges a single and Antheridial nucleus which fuses with the egg nucleus and forming a Oospore. After fertilization the fertilization tube collapses and Coenocentrum disappears. The Oospore germinates by the production of biflagellate secondary Zoospores and behaves like a resting sporangium. Reduction division takes place during the germination of Oospore. The rough outer wall of the Oospore cracks and the inner wall grows. Thus the Zoospores disperse by the breaking of the Vesicle and rise to new individuals.