Chapter # 08

Theory & Question Answers

Biology - XI

Section III - Biodiversity

# THE KINGDOM FUNGI

PRACTICAL CENTRE BLOODPET COM

Septem

Cell wall

Cytoplasm

"Fungi are non-chlorophyllous, multicellular (except yeast) eukaryotes having fungus cellulose or chitinous cell wall, body mycelium consists of hyphae, absorptive heterotrophs".

#### TAXONOMIC STATUS: (PLANT LIKE CHARACTERS)

Previously fungi were regarded as plants because of following characters.

- Having cell wall
- Lacking centriole
- Non motile

#### Animal Like Characters:

By showing following characters fungi resemble more animals than plants.

- They are heterotrophs (chloroplast is absent)
- Lack cellulose in their cell wall.
- Fungi are different from all other organisms.

They have characteristics mitosis called nuclear mitosis, during which nuclear membrane does not break and spindle is formed within nucleus.

#### Conclusion:

Fungi are neither completely plants nor animals, and are assigned to a separate kingdom fungi.

#### THE BODY OF FUNGUS:

#### Vegetative Structure:

The fungi have very simple body. In majority of fungi the body consists of a network of branched thread like structures, called the hyphae. When the hyphae form a mass, it is known as mycelium. In some lower fungi the body does not form mycelium. They are single - celled structures, for example Synchytrium and Saccharomyces. The cell wall of mycelium does not consist of true cellulose. It is composed of chitin or fungal cellulose.

The mycelium is of two types:

Coenocytic Mycelium:

In zygomycetes the mycelium is unseptate and multinucleates, it is called coenocytic mycelium.

Septate Mycelium:

In Ascomycetes and Basidiomycetes the mycelium is septate and hyphae are divided into cells. The cells may be uninucleate or multinucleate. The cells of mycelium are filled up with colorless cytoplasm, which contains nuclei and vacuoles. The food is stored in the form of glycogen or oil, starch is absent.

# **Answers For 2the Kingdom Fungi**

K.K. Mishra

### **Answers For 2the Kingdom Fungi:**

Comprehensive Objective Biology, ISC Biology Book I for Class XI Dr. P.S. Verma & Dr. B.P. Pandey, Well labelled illustrations diagrams tables figures and experiments have been given to support the text wherever necessary Fungi Biology 2004 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 ICSE-The Science Orbit(Bio)-TB-07-R Bisht Dr Neeta, Dr Neeta Bisht has almost two decades of teaching experience in various reputed schools At present she is the head of department in a school in Hyderabad Her knowledge and expertise are the hallmark of the series CliffsAP Biology Phillip E. Pack Ph. D., Phillip E. Pack, 2001 Provides a review of key concepts and terms advice on test taking strategies and full length practice exams CliffsAP study guides help you gain an edge on Advanced Placement exams Review exercises realistic practice exams and effective test taking strategies are the key to calmer nerves and higher AP scores CliffsAP Biology 2nd Edition is for students who are enrolled in AP Biology or who are preparing for the Advanced Placement Examination in Biology Inside you ll find hints for answering the essay and multiple choice sections a clear explanation of the exam format a look at how exams are graded and more A topic by topic look at what s on the exam A review of all 12 AP laboratory exercises Must know AP Biology essay questions Typical answers to free response questions Loads of illustrations graphs and tables Sample guestions and answers and practice tests which reinforce what you ve learned in areas such as molecular genetics photosynthesis and animal behavior CliffsAP Biology 2nd Edition also includes the following Chemistry of metabolic reactions Structure and function of cells Cell division Respiration including the krebs cycle glycolysis and mitochondria Heredity including crosses dominance and inheritance Taxonomy with a survey of the five kingdoms Plants including tissues germination and development and root and stem structures Animal structure and function And reproduction and development This comprehensive guide offers a thorough review of key concepts and detailed answer explanations It s all you need to do your best and get the college credits you deserve Advanced Placement Program and AP are registered trademarks of the College Board which was not involved in the production of and does not endorse this product

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