Chapter # 07

Theory & Question Answers

Biology - XI

Section III - Biodiversity

KINGDOM PROTOCTISTA (PROTISTA)

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This kingdom includes all the unicellular eukaryotic organisms, which are no longer classified as animals, plants or fungi e.g. euglena paramecium etc. multi-cellular algae and primitive fungi have also been included.

DIVERSITY AMONG PROTISTA (PROTOCTISTA):

Due to diversification this kingdom is regarded as polyphyletic group of organisms. The kingdom is divided into three groups.

- Plant like protoctists Algae
- Fungi like protoctists
 Primitive fungi
- Animal like protoctists Protozoa

PLANT LIKE PROTOCTISTS: ALGAE (CHIORELLA AND ULVA):

Algae are responsible for more than half of the amount of photosynthesis being carried in the world. Algae ranges from unicellular to filamentous and to huge multicellular structure.

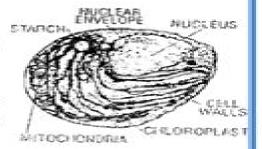
Chlorella:

Introduction:

It is plant like protoctist and grows in fresh water and usually floats in stagnet water of ponds, pools, ditoes etc. it is easily cultured.

Structure:

Chlorella is single celled, spherical and solitary. The cell is surrounded by cell wall. The body comprises of a single nucleus and cup shaped chloroplast. Pyrenoid is usually absent.



Reproduction:

Chlorella reproduces asexually by aplanospores. The protoplast divides into 8 to 16 daughter protoplast and develops a wall to produce non motile aplanospore. After maturation, the aplanospores are released from the parent body. Each aplanospore develops into a new chlorella.

Economic Importance:

- Chlorella cells have very high food value. They contain about 50% proteins, 20% fats and 20% carbohydrate, amino acids and vitamins, therefore considered as an alternative source of food.
- An antibiotic chlorellin is produced from chlorella which is useful for controlling bacterial diseases.
- Chlorella is an experimental organism in research of photosynthesis as it can be grown easily.

Kingdom Protista Answers

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