## উচ্চমাধ্যমিক জীববিজ্ঞান ১ম পত্র

# অধ্যায়–১: কোষ ও এর গঠন

ক্রর > ১ উদ্ভিদের এক প্রকার অব্যাপু খাদ্য তৈরি করে এবং অদ্য প্রকার অব্যাপু শ্রেহ বিপাকে ভূমিকা রাখে ও পরি উৎপর করে থাকে।

- ক, ফুটবডি কীঃ

  ব, জরাতুল অংকুরোদগম বলতে কী বোঝঃ

  ব, উদ্দীপকের ১ম অঞ্চাপুর চিকিত চিত্র আঁক।

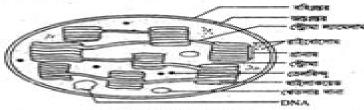
  ৩
- য়, উন্দীপকের ১ম ও ২য় অঞ্চাপুর তুলনামূলক আলোচনা করে।

#### ১ নং প্রয়োর উত্তর

Agazicus—এর যে দেখাশে মাটির উপরে দেখা যায় তাই ফুটবভি।

ত্র প্রবণাপ্ত মাটিতে এবং জোরার ভাটার স্থানে বীজের এক স্থানে টিকে থাকা কুঠিন। তাই বহু উদ্ভিদে গাছে থাকা অবস্থানই বীজের অকুরোদগম সুরু হয়ে লম্বা ভূগমূল সৃষ্টি হয়। এ ধরনের অকুরোদগমকে জরায়ুজ অকুরোদগম বলা হয়। যেমন— সুন্দরী

উদ্দীপকে উল্লিখিত ১ম অঞ্চাপুটি হলো ক্রোরোপ্লান্ট ফা সালোকসংগ্রেমণ প্রক্রিয়ার শর্করা জাতীয় খাদ্য প্রস্তুত করে। নিচে ক্রোরোপ্লান্টের চিকিত চিত্র অংকন করা হলো—



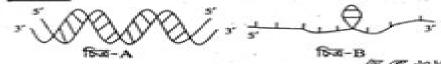
क्रिक: दुक्राइसाकाटणिक निविद्य प्रारम

উদ্দীপকে উল্লিখিত ১ম অজ্ঞাপুটি হলো ক্লোরোপ্লান্ট যা খাদ্য তৈরি করে এবং ২য় অজ্ঞাপুটি হলো মাইটোকন্ত্রিয়া, যা য়েহ বিপাকে ভূমিকা রাখে এবং পরি উৎপর করে।

নিয়ে অজ্ঞাণু দুটির তুলনামূলক আলোচনা করা বলো—
আবরণী কিছি, স্ট্রোমা, ধাইলাকয়েড, গ্রানাম, স্ট্রোমা ল্যামেলী
ফটোলিনখেটিক ইউনিট, ATP লিনখেলিল এবং DNA এ অংশগুলো
নিয়ে ক্রোরোগ্রান্ট গঠিত হয়। অপরনিকে আবরণী কিছি, প্রকোষ্ঠ, ATP
লিনখেলিল ও ETS, DNA ও রাইবোজোম এবং অন্যান্য উপাদান নিয়ে
মাইটোকজিয়া গঠিত। ক্রোরোগ্রান্ট ও মাইটোকজিয়া উভয়ই লিপোপ্রোটন
বাইলেয়ারের দুটি মেমরেন নিয়ে গঠিত।

উচ্চদেশীর উদ্ভিদকোষে ক্লোরোপ্লাকের আকৃতি সাধারণত দেশের মতো, তবে নিচ্চদেশীর উদ্ভিদকোষে এরা পেরালাকৃত, সপিলাকার, জালিকাকার, ভারকাকার, পোলাকার ইত্যাদি আকৃতিরও যতে পারে। অপরদিকে মাইটোকদ্রিয়া সাধারণত বৃত্তাকার, দভাকার, তত্ত্বকার, ভারতাকার ও কুওলী আকার যতে পারে। দেস আকৃতির ক্লোরোপ্লাকের ব্যাস সাধারণত ৩-৫ মাইক্লন, কিছু বৃত্তাকার মাইটোকদ্রিয়ার ব্যাস ০.২-২.০ মাইক্রন এবং সূত্রাকার মাইটোকান্তরার ব্যাস ৪০-৭০ মাইরুন। সাধারণত গড়ে প্রতিটি উচ্চ প্রেণীর উদ্ভিদকোষে ১০-৪০টি ক্রোরোক্সান্ট থাকে। অপরদিকে গড়ে প্রতি কোষে ৩০০-৪০০টি মাইটোকড্রিয়া থাকে। রাসায়নিকভাবে কার্বোহাইডেট, লিশিভ, প্রোটিন, क्रारतिकन, क्रारतिनिराङ (क्रारतिनि व क्यारन्थिन) DNA. RNA, কিছু সংখ্যক এনজাইম ও কো-এনজাইম নিয়ে ক্লোরোয়া<sup>ন্</sup>ট গঠিত। অপরদিকে মাইটোকদ্রিয়ার শৃশ্ক ওজনের ৬৫% প্রোটিন, ২৯% গ্নিসারাইড, ৪% লেসিখিন ও সেফালিন এবং ২% কোলেন্টেরল, লিপিডের মধ্যে ৯০% জসজোলিপিড, বাকি ১০% ফাটি আসিড, ক্যারোটিনয়েড, ডিটামিন <u>৮</u> এবং কিছু অজৈব পদার্থ । ক্লোরোপ্লান্ট খাদা সংস্থেৰে সাহায্য করে বলে একে কোষের রালাঘর বা শর্করা জাতীয় বাদোর কারখানা বলা হয়। এছাডাও নিজের প্রয়োজনে প্রোটন, নিউক্লিক জ্যাশিক তৈরি, ADP কে ATP তে রূপান্তর করা, ফটো-রেলপিরেশন করা ক্রোরোগ্লাপ্টের অন্যতম কাজ। অপর্বনিকে কোষের যারতীয় জৈবনিক কাজের শক্তি সরবরায় করে বলে মাইটোকচিয়াকে কোষের পাওয়ার যাউস বা পরিখর বলা হয়। এছাভা শ্বসনের জন্য প্রয়োজনীয় এনজাইম, কো-এনজাইম ধারণ করা, শ্বসনের বিভিন্ন পর্যায় যেমন— ক্রেবস চক্র, ইলেকট্রন ট্রান্সপোর্ট, অক্সিভেটিভ

#### 



ফসজোরাইলেপন ইত্যাদি কাজ মাইটোকজিয়ার মাধ্যমে সম্পর হয়।

- ক লোৱাস কী ৮
- উপ্যামাস প্রকৃতির জনন বলতে কী বোঝ?
- প, উব্দীপকের A ও B এর মধ্যে পার্থক্য লেখো।
- ম. জীবের বৈশিন্ট্য প্রকাশে A ও B এর ভূমিকা গুরুত্বপূর্ণ— বিলেষণ করে।

#### ২ নং প্রয়ের উত্তর

ক্র Pseris উদ্ধিদের স্পোরাজিয়াম পুক্ষই মলো সোরাস।

যে যৌন জননে বৃহদাকার নিশ্চল স্ত্রী জনন কোষের সাথে অপেকাকৃত কৃত্র সচল পুজেনন কোষের মিলন ঘটে তাকে উপ্যামাস প্রকৃতির জনন কলে। এ ধরনের জননে অংশগ্রহণকারী গ্যামিটকে বলা হয় ছেটেরোপ্যামিটস। আইসোপ্যামাস, অ্যানাইসোপ্যামাস এবং উপ্যামাস প্রকৃতির জননের মধ্যে উপ্যামাস উল্লত প্রকৃতির।

Ocdopenium নামক শৈবালে উপ্যামাস প্রকৃতির জনন দেখা যার।

ক্র উত্তীপকের A হলো DNA এবং B হলো RNA। নিচে এনের মধ্যে পার্থকা উল্লেখ করা হলো—

বৈশিক্য	DNA	RNA .
১. ভৌত গঠন	ছিসূত্রক, খুরানো সিভির মতো	একসূত্রক, শিকলের ন্যায়

## বাকী পৃষ্ঠাণ্ডলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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### **Table of Contents Hsc Biology 1chapter Notes In**

- 1. Understanding the eBook Hsc Biology 1chapter Notes In
  - The Rise of Digital Reading Hsc Biology 1chapter Notes In
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Hsc Biology 1chapter Notes In
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hsc Biology 1chapter Notes In
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Hsc Biology 1chapter Notes In
  - Personalized Recommendations
  - Hsc Biology 1chapter Notes In User Reviews and Ratings
  - Hsc Biology 1chapter Notes In and Bestseller Lists
- 5. Accessing Hsc Biology 1chapter Notes In Free and Paid eBooks
  - Hsc Biology 1chapter Notes In Public Domain eBooks
  - Hsc Biology 1chapter Notes In eBook Subscription Services
  - Hsc Biology 1chapter Notes In Budget-Friendly Options

- 6. Navigating Hsc Biology 1chapter Notes In eBook Formats
  - o ePub, PDF, MOBI, and More
  - Hsc Biology 1chapter Notes In Compatibility with Devices
  - Hsc Biology 1chapter Notes In Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hsc Biology 1chapter Notes In
  - Highlighting and Note-Taking Hsc Biology 1chapter Notes In
  - Interactive Elements Hsc Biology 1chapter Notes In
- 8. Staying Engaged with Hsc Biology 1chapter Notes In
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hsc Biology 1chapter Notes In
- 9. Balancing eBooks and Physical Books Hsc Biology 1chapter Notes In
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hsc Biology 1chapter Notes In
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Biology 1chapter Notes In
  - Setting Reading Goals Hsc Biology 1chapter Notes In
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Biology 1chapter Notes In
  - Fact-Checking eBook Content of Hsc Biology 1chapter Notes In
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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