

# উচ্চমাধ্যমিক জীববিজ্ঞান ১ম পত্র

## অধ্যায়-১: কোষ ও এর গঠন

**প্রশ্ন-১** উদ্ভিদের এক প্রকার অঙ্গাণু খাদ্য তৈরি করে এবং অন্য প্রকার অঙ্গাণু রেশ বিপাকে ভূমিকা রাখে ও শক্তি উৎপন্ন করে থাকে।

সে কে? (২০)

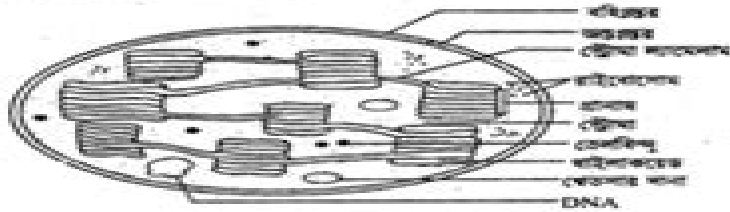
- ফুটবল খেলোয়াড় কী?
- করাদুল অক্সিজেনের মতো কী বোঝে?
- উদ্ভিদকে ১ম অঙ্গাণুটির চিত্র আঁক।
- উদ্ভিদকে ১ম ও ২য় অঙ্গাণুটির তুলনামূলক আলোচনা করো।

### ১ নং প্রশ্নের উত্তর

**ক** Agaricus-এর যে দেহাংশ মাটির উপরে দেখা যায় তাই ফুটবল খেলোয়াড়।

**খ** লবণাক্ত মাটিতে এবং জোয়ার ভাটার স্থানে বীজের এক স্থানে তিকে থাকা উদ্ভিদ। তাই বহু উদ্ভিদে পাচ্ছে থাকা অক্সিজেনের মতো করে। এ ধরনের অক্সিজেনের মতো করে করাদুল অক্সিজেনের মতো করে। যেমন- সুন্দরী

**গ** উদ্ভিদকে উদ্ভিদিত ১ম অঙ্গাণুটি হলো ক্লোরোপ্লাস্ট যা সালোকসংশ্লেষণ প্রক্রিয়ার শক্তি জাতীয় খাদ্য প্রস্তুত করে। নিচে ক্লোরোপ্লাস্টের চিত্রিত আঁক করা হলো-



চিত্র: ক্লোরোপ্লাস্টের বিভিন্ন অংশ

**ঘ** উদ্ভিদকে উদ্ভিদিত ১ম অঙ্গাণুটি হলো ক্লোরোপ্লাস্ট যা খাদ্য তৈরি করে এবং ২য় অঙ্গাণুটি হলো মাইটোকন্ড্রিয়া, যা রেশ বিপাকে ভূমিকা রাখে এবং শক্তি উৎপন্ন করে।

নিচে অঙ্গাণু দুটির তুলনামূলক আলোচনা করা হলো-

আবর্তনী ক্রি, ক্লোরোপ্লাস্ট, খাদ্যকণিকা, গ্রানাম, ক্লোরোপ্লাস্টের ঐক্য, ATP সিনথেসিস এবং DNA এ অঙ্গাণুটি নিচে ক্লোরোপ্লাস্ট গঠিত হয়। অপরদিকে আবর্তনী ক্রি, গ্রানাম, ATP সিনথেসিস ও H<sub>2</sub>O, DNA ও রাইবোজোম এবং অন্যান্য উপাদান নিচে মাইটোকন্ড্রিয়া গঠিত। ক্লোরোপ্লাস্ট ও মাইটোকন্ড্রিয়া উভয়ই লিপোপ্রোটিন বাইলোয়ারের দুটি মেমব্রেন নিয়ে গঠিত।

উচ্চশ্রেণীর উদ্ভিদকোষে ক্লোরোপ্লাস্টের আকৃতি সাধারণত লেন্সের মতো, তবে নিম্নশ্রেণীর উদ্ভিদকোষে এরা পেয়ালাকৃত, সর্পিলাকার, জালিকাকার, তারকাকার, গোলাকার ইত্যাদি আকৃতিরও হতে পারে। অপরদিকে মাইটোকন্ড্রিয়া সাধারণত বৃত্তাকার, দণ্ডাকার, তরুকার, তারকাকার ও কুণ্ডলী আকার হতে পারে। লেন্স আকৃতির ক্লোরোপ্লাস্টের ব্যাস সাধারণত ৩-৫ মাইক্রন, কিছু বৃত্তাকার মাইটোকন্ড্রিয়ার ব্যাস

০.২-২.০ মাইক্রন এবং স্ত্রাকার মাইটোকন্ড্রিয়ার ব্যাস ৪০-৭০ মাইক্রন। সাধারণত গড়ে প্রতিটি উচ্চ শ্রেণীর উদ্ভিদকোষে ১০-৪০টি ক্লোরোপ্লাস্ট থাকে। অপরদিকে গড়ে প্রতি কোষে ৩০০-৪০০টি মাইটোকন্ড্রিয়া থাকে। রাসায়নিকভাবে কার্বোহাইড্রেট, লিপিড, প্রোটিন, ক্লোরোফিল, ক্যারোটিনয়েড (ক্যারোটিন ও জ্যান্থোফিল) DNA, RNA, কিছু সংখ্যক এনজাইম ও কো-এনজাইম নিয়ে ক্লোরোপ্লাস্ট গঠিত। অপরদিকে মাইটোকন্ড্রিয়ার শক্তি উৎপাদনের ৬৫% প্রোটিন, ২৯% গ্রিসারাইড, ৪% লেসিথিন ও সেকালিন এবং ২% কোলেস্টেরল, লিপিডের মধ্যে ৯০% ফসফোলিপিড, বাকি ১০% ফ্যাটি অ্যাসিড, ক্যারোটিনয়েড, ভিটামিন E এবং কিছু অজৈব পদার্থ। ক্লোরোপ্লাস্ট খাদ্য সংশ্লেষে সাহায্য করে বলে একে কোষের রাসায়নিক বা শক্তি জাতীয় খাদ্যের কারখানা বলা হয়। এছাড়াও নিজের প্রয়োজনে প্রোটিন, নিউক্লিক অ্যাসিড তৈরি, ADP কে ATP তে রূপান্তর করা, ফটো-রেসপিরেশন করা ক্লোরোপ্লাস্টের অন্যতম কাজ। অপরদিকে কোষের যাবতীয় জৈবনিক কাজের শক্তি সরবরাহ করে বলে মাইটোকন্ড্রিয়াকে কোষের পাওয়ার হাউস বা শক্তির কক্ষ বলা হয়। এছাড়া স্বপনের জন্য প্রয়োজনীয় এনজাইম, কো-এনজাইম হারণ করা, স্বপনের বিভিন্ন পদার্থ যেমন- ক্রেবস চক্র, ইলেকট্রন ট্রান্সপোর্ট, অক্সিডেটিভ ফসফোরাইলেশন ইত্যাদি কাজ মাইটোকন্ড্রিয়ার মাধ্যমে সম্পন্ন হয়।

### ২ নং প্রশ্নের উত্তর



- সোরাস কী?
- উপ্যাস প্রকৃতির জনন বলতে কী বোঝে?
- উদ্ভিদকে A ও B এর মধ্যে পার্থক্য লেখো।
- জীবের বৈশিষ্ট্য প্রকাশে A ও B এর ভূমিকা পূরুতপূর্ণ- বিবেচনা করো।

### ২ নং প্রশ্নের উত্তর

**ক** Pteris উদ্ভিদের স্পোরোজিওম পুষ্টি হলো সোরাস।

**খ** যে যৌন জননে বৃদ্ধাকার নিউক্লিয়ার জনন কোষের সাথে অপেক্ষাকৃত ক্ষুদ্র সচল পুঞ্জজনন কোষের মিলন ঘটে তাকে উপ্যাস প্রকৃতির জনন বলে। এ ধরনের জননে অংশগ্রহণকারী গ্যামিটকে বলা হয় মেটোজোপ্যামিটস। আইসোপ্যামাস, অ্যানাইসোপ্যামাস এবং উপ্যাস প্রকৃতির জননের মধ্যে উপ্যাস উন্নত প্রকৃতির। Oedogonium নামক পৈতাল উপ্যাস প্রকৃতির জনন দেখা যায়।

**গ** উদ্ভিদকে A হলো DNA এবং B হলো RNA। নিচে এদের মধ্যে পার্থক্য উল্লেখ করা হলো-

বৈশিষ্ট্য	DNA	RNA
১. জৈব গঠন	দ্বিসূত্রক, দুরানো সিঁড়ির মতো	একসূত্রক, শিকলের ন্যায়

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

# Hsc Biology 1chapter Notes In

**Christian Drosten**



**Hsc Biology 1chapter Notes In:**

The book delves into Hsc Biology 1chapter Notes In. Hsc Biology 1chapter Notes In is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hsc Biology 1chapter Notes In, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Hsc Biology 1chapter Notes In
- Chapter 3: Hsc Biology 1chapter Notes In in Everyday Life
- Chapter 4: Hsc Biology 1chapter Notes In in Specific Contexts
- Chapter 5: Conclusion

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3. In chapter 2, this book will delve into the foundational concepts of Hsc Biology 1chapter Notes In. This chapter will elucidate the essential principles that must be understood to grasp Hsc Biology 1chapter Notes In in its entirety.
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