

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।

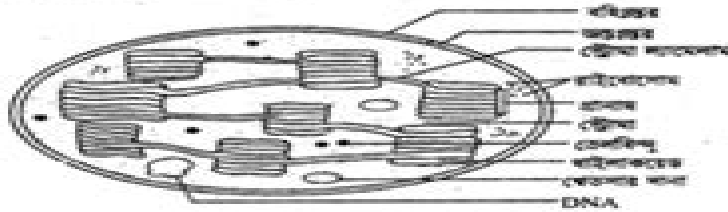
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খ. অঙ্গাণু অক্সুরোদগম বলতে কী বোঝে? ২
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১ নং প্রশ্নের উত্তর

ক. Agaricus-এর যে দেহাংশে মাটির উপরে দেখা যায় তাই ফুটবডি।

খ. লবণাক্ত মাটিতে এবং জোয়ার ভাটার স্থানে বীজের এক স্থানে তিকে থাকা স্পোর। তাই বহু উদ্ভিদে পাচ্ছে থাকা অবস্থায়ই বীজের অক্সুরোদগম শুরু হয়ে লম্বা কৃণমূল সৃষ্টি হয়। এ ধরনের অক্সুরোদগমকে অঙ্গাণু অক্সুরোদগম বলা হয়। যেমন— সুন্দরী

গ. উদ্ভীপকে উল্লিখিত ১ম অঙ্গাণুটি হলো ক্লোরোপ্লাস্ট যা সালোকসংশ্লেষণ প্রক্রিয়ার শর্করা জাতীয় খাদ্য প্রস্তুত করে। নিচে ক্লোরোপ্লাস্টের চিহ্নিত চিত্র অঙ্কন করা হলো—



চিত্র: ক্লোরোপ্লাস্টের বিভিন্ন অংশ

ঘ. উদ্ভীপকে উল্লিখিত ২য় অঙ্গাণুটি হলো ক্লোরোপ্লাস্ট যা খাদ্য তৈরি করে এবং ২য় অঙ্গাণুটি হলো মাইটোকন্ড্রিয়া, যা রেশ বিপাকে ভূমিকা রাখে এবং শক্তি উৎপন্ন করে।

নিম্নে অঙ্গাণু দুটির তুলনামূলক আলোচনা করা হলো—

আবর্তনী ক্রি, ক্রোমা, থাইলাকয়েড, গ্রানাম, ক্রোমা ল্যামেলী ফটোসিনথেটিক ইউনিট, ATP সিনথেসিস এবং DNA এ অঙ্গাণুদ্বয় নিয়ে ক্লোরোপ্লাস্ট গঠিত হয়। অপরদিকে আবর্তনী ক্রি, গ্রানাম, ATP সিনথেসিস ও HTS, DNA ও হাইলোম এবং অন্যান্য উপাদান নিয়ে মাইটোকন্ড্রিয়া গঠিত। ক্লোরোপ্লাস্ট ও মাইটোকন্ড্রিয়া উভয়ই লিপোপ্রোটিন বাইলোয়ারের দুটি মেমব্রেন নিয়ে গঠিত।

উচ্চশ্রেণীর উদ্ভিদকোষে ক্লোরোপ্লাস্টের আকৃতি সাধারণত পেঙ্গের মতো, তবে নিম্নশ্রেণীর উদ্ভিদকোষে এরা পেয়ালাকৃত, সর্পিলাকার, জালিকাকার, তারকাকার, গোলাকার ইত্যাদি আকৃতিরও হতে পারে। অপরদিকে মাইটোকন্ড্রিয়া সাধারণত কুণ্ডলকার, মণ্ডাকার, তরুকার, তারকাকার ও কুণ্ডলী আকার হতে পারে। লেন্স আকৃতির ক্লোরোপ্লাস্টের ব্যাস সাধারণত ৩-৫ মাইক্রন, কিছু কুণ্ডলকার 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 শূন্য ওজনের ৬৫% প্রোটিন, ২৯% রিসারাইড, 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 শর্করা 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 কলা বলা হয়। এছাড়া শ্বসনের জন্য প্রয়োজনীয় এনজাইম, কো-এনজাইম ধারণ করা, শ্বসনের বিভিন্ন পদার্থ যেমন— ক্রেবস চক্র, ইলেকট্রন ট্রান্সপোর্ট, অক্সিডেটিভ ফসফোরাইলেশন ইত্যাদি কাজ মাইটোকন্ড্রিয়ার মাধ্যমে সম্পন্ন হয়।

প্রশ্ন-২



- ক. সোরাস কী? ১
খ. উপ্যামাস প্রকৃতির জনন বলতে কী বোঝে? ২
গ. উদ্ভীপকের A ও B এর মধ্যে পার্থক্য লেখো। ৩
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২ নং প্রশ্নের উত্তর

ক. Pteris উদ্ভিদের স্পোরোজিওম পুষ্টি হলো সোরাস।

খ. যে যৌন জননে কৃষাকার নিউক্লি জী জনন কোষের সাথে অপেক্ষাকৃত ক্ষুদ্র সচল পুঞ্জজনন কোষের মিলন ঘটে তাকে উপ্যামাস প্রকৃতির জনন বলে। এ ধরনের জননে অংশগ্রহণকারী গ্যামিটকে বলা হয় মেটেরোপ্যাটিস। আইসোপ্যাটাস, অ্যানাইসোপ্যাটাস এবং উপ্যামাস প্রকৃতির জননের মধ্যে উপ্যামাস উন্নত প্রকৃতির। Oedogonium নামক শৈবালে উপ্যামাস প্রকৃতির জনন দেখা যায়।

গ. উদ্ভীপকের 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

J. Buultjens



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