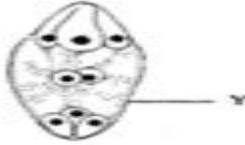


উচ্চমাধ্যমিক জীববিজ্ঞান ১ম পত্র

অধ্যায়-১০: উদ্ভিদ প্রজনন

ভাগ ১



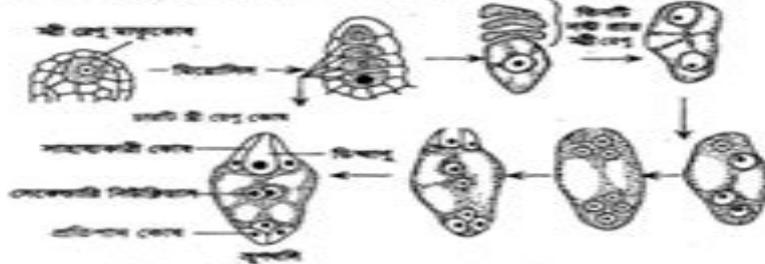
- ক. প্রোথ্যাল্যাস কী? ১
 খ. পার্থেনোজেনেসিস বলতে কী বোঝ? ২
 গ. উদ্ভীপকের Y এর সৃষ্টির বিভিন্ন ধাপ চিত্রসহ বর্ণনা করো। ৩
 ঘ. উদ্ভীপকে উল্লিখিত চিত্রের বিভিন্ন অংশের নিষেকোত্তর পরিণতি বিশ্লেষণ করো। ৪

১ নং প্রশ্নের উত্তর

ক. কার্ণের লিঙ্গধর বা গ্যামিটোফাইটিক পর্যায়ের সূর্যনিভাঙ্কার সবুজ উদ্ভিদ দেখাই হলো প্রোথ্যাল্যাস।

খ. নিষেক ছাড়া ডিম্বাণু থেকে সূত্র সৃষ্টি তথা নতুন জীব সৃষ্টির পদ্ধতিকে পার্থেনোজেনেসিস বলে। বোলতা, মৌমাছি, রটিফার ইত্যাদি প্রাণিসমূহে এবং স্পাইরোগাইরা, মিউকার, ফার প্রকৃতি উদ্ভিদসমূহে এ ধরনের জনন পরিলক্ষিত হয়। পার্থেনোজেনেসিস দু'প্রকার। যথা- হ্যাঙ্গরেড পার্থেনোজেনেসিস ও ডিম্বরেড পার্থেনোজেনেসিস।

গ. উদ্ভীপকে উল্লিখিত 'Y' চিহ্নিত অংশটি হলো স্ত্রী গ্যামিটোফাইট। স্ত্রী গ্যামিটোফাইট সৃষ্টির বিভিন্ন ধাপ চিত্রসহ নিম্নে বর্ণনা করা হলো—



চিত্র : স্ত্রী গ্যামিটোফাইট সৃষ্টির বিভিন্ন ধাপ

ডিম্বকের অভ্যন্তরে সূত্রপোষক টিস্যুর মাঝে একটি ডিম্বরেড স্ত্রীরেণু মাতৃকোষ (2n) নিয়োগিস বিভাজনের মাধ্যমে চারটি হ্যাঙ্গরেড (n) স্ত্রীরেণু গঠন করে। এদের মধ্যে তিনটি নষ্ট হয়ে যায় এবং একটি মাত্র কার্যকর থাকে। কার্যকর স্ত্রীরেণু নিউক্লিয়াসটি মাইটোসিস বিভাজনের মাধ্যমে দুটি নিউক্লিয়াসে পরিণত হয়ে স্ত্রীরেণু কোষের দু'মেরুতে অবস্থান নেয়। প্রতিটি মেরুর নিউক্লিয়াস পরপর দু'বার বিভাজিত হয়ে চারটি করে নিউক্লিয়াস গঠন করে। স্ত্রীরেণু কোষটি দু'মেরুস্থ খলির মতো অঙ্গে পরিণত হয় এবং এর প্রতি মেরুতে চারটি করে মোট অটটি নিউক্লিয়াস অবস্থান করে থাকে সূত্র খলি বলে। এ অবস্থায় দু'মেরু থেকে একটি নিউক্লিয়াস মাতৃকোষে পরস্পর মিলিত হয়ে সেকেন্ডারী নিউক্লিয়াস গঠন করে। সূত্রখলির মধ্যে ডিম্বকরপ্তের নিকে তিনটি নিউক্লিয়াসের মাতৃকোষে বড় নিউক্লিয়াসটিকে ডিম্বাণু, দু'পাশের দুটি নিউক্লিয়াসকে সাহায্যকারী নিউক্লিয়াস এবং ডিম্বকমূলের নিকের তিনটি নিউক্লিয়াসকে প্রতিপাদ নিউক্লিয়াস এবং সূত্রখলি, ডিম্বাণু, সাহায্যকারী নিউক্লিয়াস, প্রতিপাদ নিউক্লিয়াস ও সেকেন্ডারী নিউক্লিয়াসকে সন্মিলিতভাবে স্ত্রী গ্যামিটোফাইট বলে। এভাবেই স্ত্রী গ্যামিটোফাইট সৃষ্টির প্রক্রিয়াটি সম্পন্ন হয়।

ঘ. উদ্ভীপকে উল্লিখিত চিত্রটি হলো ডিম্বকের অভ্যন্তরে একটি পূর্ণাঙ্গ সূত্রখলির এর বিভিন্ন অংশের নিষেকোত্তর পরিণতি নিয়ে বিশ্লেষণ করা হলো—

নিষেকের পর ডিম্বকরপ্ত পরিবর্তিত হয়ে বীজরপ্তে পরিণত হয়। ডিম্বকনাজী পরিবর্তিত হয়ে বীজনাজীতে পরিণত হয়। ডিম্বক নাজী পরিবর্তিত হয়ে বীজবৃত্তে পরিণত হয়। এক্সাইন ও ইন্ডাইনে পরিবর্তিত হয়ে যথাক্রমে টেন্ডা ও টেগমেন্ট তৈরি করে। নিষেকের পরে সূত্রপোষক বা নিউসেলাস নষ্ট হয়ে যায় অথবা পেরিস্পার্মে পরিণত হয়। সস্য নিউক্লিয়াস পরিবর্তিত হয়ে সস্য বা এন্ডোস্পার্ম তৈরি হয়। সাহায্যকারী কোষ এবং প্রতিপাদ কোষ নষ্ট হয়ে যায়। নিষেকের পর গর্ভাশয় পরিবর্তিত হয়ে ফলে পরিণত হয়। গর্ভাশয় প্রাচীর পরিবর্তিত হয়ে তৈরি হয় ফলদ্রক। ডিম্বক পরিবর্তিত হয়ে বীজে পরিণত হয়। ডিম্বকের বহিঃদ্রক সূত্রাঙ্কিত হয়ে বীজ বহিঃদ্রক এবং ডিম্বক অন্তঃদ্রক সূত্রাঙ্কিত হয়ে বীজ অন্তঃদ্রক তৈরি করে। ডিম্বাণু পরিবর্তিত হয়ে তৈরি হয় সূত্র। এটি বীজের অভ্যন্তরে থাকে। এভাবে চিত্রের বিভিন্ন অংশ পরিবর্তিত হয়ে ফল তৈরি করে। সম্পূর্ণক উদ্ভিদের জনন কোষ দুটি গঠিত হওয়ার পর এদের মিলন ঘটলে ফুলের গর্ভাশয়টি ফলে এবং ডিম্বকসমূহ বীজে পরিণত হয়। বীজ উদ্ভিদের বংশ রক্ষা করে এবং বংশ সৃষ্টি করে। নিষেকের মাধ্যমে উচ্চ পরিবর্তন না ঘটলে ফল ও বীজের সৃষ্টি হতো না। ফলে খাদ্যের অভাবে প্রাণিকুল বিশেষ করে মানবজাতি ক্ষয় হয়ে যেতো।

ভাগ ২: মাঠ পরীয়ে বুনা জাত হতে কাঙ্ক্ষিত বৈশিষ্ট্য আবাদি জাতে সন্ধানান্তরের মাধ্যমে উচ্চ ফলনশীল ধানের জাত উদ্ভাবন সম্ভব।

- ক. ডিরিয়ন কী? ১
 খ. অত্রপ্টিলীর অঙ্কল বলতে কী বোঝ? ২
 গ. উদ্ভীপকের প্রক্রিয়াটি বর্ণনা করো। ৩
 ঘ. বর্ণিত প্রক্রিয়াটি অর্থনীতি ও বিবর্তনে কীভাবে ভূমিকা রাখে? বিশ্লেষণ করো। ৪

২ নং প্রশ্নের উত্তর

ক. নিউক্লিক অ্যাসিড ও একে ছিঁতে অবশিষ্ট ক্যাপসিড সমন্বয়ে গঠিত এক একটি সংক্রমণকম সম্পূর্ণ ভাইরাস কণাটি হলো ডিরিয়ন।

খ. মূল ও কাণ্ডের পেরিসাইকল স্তর হতে কেন্দ্র পর্যন্ত বিস্তৃত অঙ্কলকে অত্রপ্টিলীর অঙ্কল বলে। অত্রপ্টিলীর অঙ্কল পেরিসাইকল, ডাম্বুকার বাডল, মজ্জা ও মজ্জারশ্মি নিয়ে গঠিত। বাস্য সঙ্কর, বাস্য ও পানি পরিবহন, দৃঢ়তা প্রদান ইত্যাদি অত্রপ্টিলীর অঙ্কলের তিস্যুগুচ্ছের প্রধান কাজ।

গ. উদ্ভীপকে উল্লেখ করা হয়েছে মাঠ পরীয়ে বুনা জাত হতে কাঙ্ক্ষিত বৈশিষ্ট্য আবাদি জাতে সন্ধানান্তরের মাধ্যমে উচ্চ ফলনশীল ধানের জাত উদ্ভাবন সম্ভব। সুতরাং উদ্ভীপকে ইচ্ছিত করা প্রক্রিয়াটি হলো কৃত্রিম সংকরায়ন।

উত্তরের বাকি অংশ সৃজনশীল ও এর 'গ' নং প্রশ্নোত্তর দেখো।

ঘ. উদ্ভীপকে বর্ণিত প্রক্রিয়াটি প্রকৃতপক্ষে কৃত্রিম সংকরায়ন প্রক্রিয়া। এ প্রক্রিয়াটি আমাদের অর্থনীতি ও বিবর্তনে বিভিন্নভাবে গুরুত্বপূর্ণ ভূমিকা রাখে।

উত্তরের বাকি অংশ সৃজনশীল ও এর 'ঘ' নং প্রশ্নোত্তর দেখো।

ভাগ ৩: নিরপ্তিত অবস্থায় পরাণায়ন ঘটিয়ে বর্তমান জাতের ফসল হতে উন্নত জাতের ফসল প্রবর্তন সম্ভব।

- ক. হিমিলন কী? ১
 খ. পার্থেনোজেনেসিস বলতে কী বোঝ? ২

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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