

৩২. বিশাল প্রাণিজগতকে তাদের জীবনে পৃথীক নিজেই একটি বিশেষ গঠনের উপস্থিতির উপর ভিত্তি করে প্রেপিকিন্যাস করা হয়েছে। ভার্টিব্রেটসের মধ্যে প্রথম উচ্চ তন্ত্রবিশিষ্ট দলটি থেকে অঙ্কনসহ পৃথিবীর সমস্ত প্রাকৃতিক পরিবেশে বিস্তৃত। [DB'22]
- (খ) উদ্ভীপকে উল্লিখিত ভিত্তি ব্যতীত প্রাণীর প্রেপিকিন্যাসে আরো ভিত্তি ব্যবহার করা হয়েছে বিশ্লেষণ কর। ৪

**উত্তর**

- (খ) উদ্ভীপকে উল্লিখিত ভিত্তি বাদেও বিভিন্ন ভিত্তিতে প্রাণি প্রেপিকিন্যাস করা হয়। প্রাণী প্রেপিকিন্যাসের প্রধান ভিত্তিগুলো হলো:

- |               |                     |                |                               |
|---------------|---------------------|----------------|-------------------------------|
| ১. দেহের আকার | ২. সংগঠন ক্রমমাত্রা | ৩. জীবন পদ্ধতি | ৪. ক্রিয়াজ ও জর্নীয় বিন্যাস |
| ৫. অঙ্গগত     | ৬. প্রতিসাম্য       | ৭. নটোকর্ড     | ৮. সিলোম                      |
| ৯. বস্তুকায়ন | ১০. অঙ্কনগত ইত্যাদি |                |                               |

নিচে কয়েকটি প্রধান ভিত্তি ব্যাখ্যা করা হলো:

সংগঠন ক্রমমাত্রা অনুযায়ী:	অঙ্গগত অনুযায়ী:	প্রতিসাম্য অনুযায়ী:	সিলোম অনুযায়ী:	নটোকর্ড অনুযায়ী:
১. কোষীয় মাত্রার গঠন	১. দ্বিতরী বা ত্রিভুজতরী প্রাণী	১. গোষ্ঠীয় প্রতিসাম্য	১. অ্যাসিলোমেট	১. ননকর্ডেট
২. কোষ টিস্যু মাত্রার গঠন	২. দ্বিতরী বা ত্রিভুজতরী প্রাণী	২. অরীয় প্রতিসাম্য	২. স্যুডোসিলোমেট	২. কর্ডেট
৩. টিস্যু অঙ্গ মাত্রার গঠন		৩. বিঅরীয় প্রতিসাম্য	৩. ইউসিলোমেট	(i) ইউরোকর্ডাটা
৪. অঙ্গ তন্ত্র মাত্রার গঠন		৪. বিপাশীয় প্রতিসাম্য		(ii) সেফালোকর্ডাটা
		৫. অপ্রতিসাম্য		(iii) ভার্টিব্রেটা

উপর্যুক্ত আলোচনা থেকে এটি প্রতীয়মান হয় যে, উল্লিখিত বৈশিষ্ট্যগুলো দ্বারা প্রাণীদের পর্বগত বৈশিষ্ট্য চিহ্নিত করা যায়।

৩৩. [CB'22]

P	Q	R
ফিত্তা কুমি	গোল কুমি	কই মাছ

- (গ) উদ্ভীপকের P, Q, R প্রাণীদের মধ্যে সিলোম-এর ভিন্নতা রয়েছে-ব্যাখ্যা কর। ৩

**উত্তর**

- (গ) উদ্ভীপকের P, Q, R যথাক্রমে ফিত্তাকুমি, গোলকুমি ও কইমাছ।

P	ফিত্তাকুমি	Platyhelminthes	অ্যাসিলোমেট
Q	গোলকুমি	Nematoda	স্যুডোসিলোমেট
R	কইমাছ	Chordata	ইউসিলোমেট

ত্রিতরী প্রাণীর জর্নীয় পরিষ্কৃটনের সময় মেসোডার্ম ত্তর থেকে সৃষ্টি যে গহ্বর মেসোডার্মাল কোষে নির্মিত পেরিটোনিয়াম (peritoneum) নামক সিল্পিতে আবৃত থাকে তাকে সিলোম বলে। এ সংজ্ঞা অনুযায়ী, মেসোডার্মটীক সব গহ্বরই সিলোমে নয়। বরং সিলোম ছাড়াও বিভিন্ন ধরনের গহ্বর দেহের অভ্যন্তরে উপস্থিত। সিলোমের উপস্থিতির ভিত্তিতে প্রাণীদের নিম্নোক্ত গোষ্ঠীভুক্ত করা হয়।

- অ্যাসিলোমেট (Acoelomate): এসব প্রাণীর দেহে সিলোমের পরিবর্তে জর্নীয় পরিষ্কৃটনের সময় অস্ত্রাহু ফাঁকা স্থানটি (ট্রাশেটাসিল) মেসোডার্মাল স্পঞ্জি প্যারেনকাইমা (spongy parenchyma) কোষে পূর্ণ থাকে। Porifera, Cnâdaria, Ctenophora, Platyhelminthes প্রকৃতি পর্বভুক্ত প্রাণীরা অ্যাসিলোমেট।
- স্যুডোসিলোমেট (Pseudocoelomate) বা অপ্রকৃত সিলোমেট: এসব প্রাণীও সিলোমবিহীন তবে জর্নীয় পরিষ্কৃটনের সময় অস্ত্রাহু ফাঁকা স্থানটিকে (ট্রাশেটাসিল) ঘিরে কখনও কখনও মেসোডার্মাল কোষের অবস্থান করে। কিন্তু কোষগুলো কখনও পূর্ণ কোষের বা পেরিটোনিয়াম সৃষ্টি করে ট্রাশেটাসিলকে সম্পূর্ণ বেটন করে না। Nematoda, Rotifera, Kinochyncha প্রকৃতি পর্বভুক্ত প্রাণীরা স্যুডোসিলোমেট।
- ইউসিলোমেট (Eucoelomate) বা প্রকৃত সিলোমেট: এগুলো প্রকৃত সিলোমযুক্ত প্রাণী কারণ জর্নীয় মেসোডার্মের অভ্যন্তর থেকে গহ্বররূপে সিলোম উদ্ভূত হয় এবং চাপা, মেসোডার্মাল এপিথেলিয়াল কোষে গঠিত পেরিটোনিয়াম ত্তরে সম্পূর্ণ বেটন থাকে। ইউসিলোমেটদের অপেক্ষাকৃত উন্নত প্রাণী মনে করা হয়। Mollusca, Annelida, Arthropoda, Echinodermata, Hemichordata, Chordata প্রকৃতি পর্বভুক্ত প্রাণী ইউসিলোমেট।

সুতরাং, উদ্ভীপকের P, Q, R প্রাণীদের মধ্যে সিলোমের ভিন্নতা আছে।

# Biology 2 Hsc Course

**Katrin Zwirgmaier**



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**Training for Agricultural Development** Commonwealth Secretariat. Food Production & Rural Development Division, 1985 Directory of agricultural development training centres in the British Commonwealth lists national level international and regional level training programmes and institutions providing training related to rural development including forestry fishery development agriproduct processing irrigation land utilization and surveying etc *Excel Preliminary Chemistry* C. M. Roebuck, 2003 *2 Unit Biology Higher School Certificate Examination Paper and Answers 1995* Catherine Odlum, 1996-01 *2 Unit Biology Higher School Certificate Examination Paper and Answers 1997* Catherine Odlum, 1998 **Excel Senior High School Hospitality** Cathy Smith, Georgina Buttel, Sonya Ankerholz-Potts, 2004

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