

উচ্চমাধ্যমিক জীববিজ্ঞান ১ম পত্র

অধ্যায়-১২: জীবের পরিবেশ, বিস্তার ও সংরক্ষণ

প্রশ্ন ▶ ১ বাংলাদেশের সফিল-প্রতিক সমূহ উপকূলে একটি বিশেষ ধরনের বনভূমি আছে যা বিষ প্রতিষ্ঠানের অঙ্গরুপ : ১. পুলপুট কী? ১

২. আলোক বন্দন বলতে কী বোঝ? ২

৩. উচীপকের উচিলসমূহের অভিযোজনিক বৈশিষ্ট্যসমূহ কোনো? ৩

৪. উচীপকের জীববৈচিত্র্য সংরক্ষণের Ex-Sisum-র জেনে Ex-Sisum সংরক্ষণই উচীপ— মুক্তি নাও? ৪

৫. নং ৫ প্রশ্নের উত্তর

১. একটি বৃক্ষের বৃত্তি ও দলকে যথন্ত আকৃতি ও বর্ণে পৃথক করা যায় না তখন একেরকে একের বলা হবে পুলপুট :

২. আলোক সাধারণে O₂ এবং CO₂ তাপ করার প্রতিসাই রাসে আলোক বসন : সবুজ উচিলস C₃, তাঁত তথা কেলভিন তত্ত্ব চলাকালে পরিবেশে তীব্র আলোক ও উচীপকের অপমানজনক সূচি কলে সালোকসময়ের না হবে আলোক বসন থটে ? কোরোআলিট CO₂ এর পরিমাণ কম এবং O₂ এর পরিমাণ বেশি হলেও আলোক বসন হবে ? আলোক বসনে কোরোআলিট, পার-করিন্সোম ও আইটেক-কিন্ডুয়া অংশগ্রহণ করে আকে :

৩. উচীপকে উচিলিত বাংলাদেশের সফিল-প্রতিক সমূহ উপকূলের বিশেষ বনভূমির অভিযোজনিক বৈশিষ্ট্যসমূহ উচীপ— করা হলো—
উত্তরের বাকি অংশ ১০(গ) নং সূচনালীন প্রয়োজন কর্তব্য।

৪. উচীপকে ইতিবাচক করা উচীপ বনটি সুন্দরবন যা প্রকৃত পক্ষে মানবোত্ত বনাকুল বিশেষে পরিচিত। এ বনের জীববৈচিত্র্য সংরক্ষণে Ex-Sisum অপেক্ষা Ex-Sisum সংরক্ষণই উচীপ। মূল বাসস্থানে তথা আকৃতিক পরিবেশের বিবরণের পতিলাপ ইকোসিস্টেমে জীববৈচিত্র্য সংরক্ষণ করতে কলা করা Ex-Sisum সংরক্ষণ : মানবোত্ত, জীববৈচিত্র্যের উপাদানসমূহকে তাদের মূল বাসস্থানে যা আকৃতিক পরিবেশের বাইরে বিচ্ছিন্ন রাখাই হলো Ex-Sisum সংরক্ষণ : প্রকৃতিতে কোনো প্রকৃতির সংরক্ষণের সকলেরে উচীপ উপর করা যে বাসস্থানে সে জেনে দেই বাসস্থানে তাকে যথাব্যক্তভাবে সংরক্ষণ করা। এর ফলে উচীপ প্রকৃতির সংরক্ষণ সম্পর্কসূত্র প্রাপ্তিকুলও সংরক্ষিত হয়। একটি নিদিষ্ট পরিবেশে উচিলস ও প্রাপ্তিকুলের বাকাবিক বৃক্ষ ও বিকাশের সাথে অনেক অনুজীব সম্পর্কসূত্র প্রয়োজন। এসব ক্ষেত্রে কোনো বনের তথা পরিবেশের জীববৈচিত্র্য সংরক্ষণের প্রধান উপায় হলো Ex-Sisum সংরক্ষণ : Ex-Sisum সংরক্ষণে কোনো বনের উচিলস, প্রাণী এবং অন্যান্য অনুজীবকে সংরক্ষণ করা বেশ কঠিন। অনেক সময় পরিবেশের আকৃতিক বিবরণের পতিলাপের সকলে এই পরিবেশের তথা কোনো নিদিষ্ট বনের সব জীব ও অনুজীব ক্ষাত্রিকভাবে অভিযোগিত হতে পারে। Ex-Sisum সংরক্ষণের ক্ষেত্রে এমনটি অসম্ভব : উচীপকে উচিলিত বন তথা সুন্দরবন একটি বিশেষ বৈশিষ্ট্যপূর্ণ বন। এখনকার অলবাসু, মাটি, জোড়ার-ভাটি, মাটির লবণ্যাত্ত ইত্যাদি সংকীর্ণভাবে নির্ভুল করে সৃষ্টি পরিবেশ তৈরির মাধ্যমে Ex-Sisum পরিবেশে এ বিশেষ জীববৈচিত্র্য সংরক্ষণ করা অসম্ভব। তাই, এ বনের জীববৈচিত্র্য সংরক্ষণে Ex-Sisum সংরক্ষণই অধিক কার্যকর।

প্রশ্ন ▶ ২ আরেক তার বনাকুলের সাথে শিক্ষা সহরের পিয়েরেছিল সুমিহরার অরণ্যান্বিততে। এখনকার বনাকুলের উচিলসের সাথে পরিচিত হওয়ার সহজ পিকাক বললেন ইয়া একটি বিশেষ করনের বনাকুল : বাংলাদেশের অভিযোগন্তর অন্তরও একটি বিশেষ ধরনের বনাকুল আছে যা বাংলাদেশের প্রতিষ্ঠান : ১. পুলপুট কী? ১

২. সাফারি প্রার্থ বলতে কী বোঝ? ২

৩. উচীপকে উচিলিত বিতীর বনাকুলের যে কোনো নিদিষ্ট উচিলসের বৈজ্ঞানিক নাম কোনো? ৩

৪. উচীপকে উচিলিত বনাকুল মুইটির তুলনামূলক বৈশিষ্ট্য আলোচনা করো। ৪

২. নং প্রশ্নের উত্তর

১. কোনো এলাকার নিদিষ্ট সময়ে বসবাসকারী একটি প্রজাতির অঙ্গরুপ বনস্পতি একের বলা হবে পুলপুট :

২. সাফারি প্রার্থ এক ধরনের সংজ্ঞানিত বনাকুল যেখানে প্রাণীরা আকৃতিক পরিবেশে বিছিনা করে এবং প্রজানদের সুযোগ পায়। আর সশ্নাইলীরা সুপ্রকৃতি থাকে এবং পাইকুল করে সেখানে শুরু বেড়াত। এখানে প্রাপ্তিকুলের মধ্যে একটি আকৃতিক অরণ্যান্বিত বনাকুল থাকে। যেখন— উচীপকের তুলনামূলক সাফারি প্রার্থ, প্রাণীপুরের বনাকুল সাফারি প্রার্থ :

৩. উচীপকে উচিলিত বিতীর বনাকুল অলোক সুন্দরবন যা বাংলাদেশের সকলান্ধের উচিলসূচীর মানবোত্ত বন। এ বনাকুলের নিদিষ্ট উচিলসের বৈজ্ঞানিক নাম নিচে দেওয়া হলো—

৪. উচীপকে উচিলিত প্রথম বনাকুল অলোক সুন্দরবন যা বাংলাদেশের শালবন এবং বিতীর উচিলিত বনাকুল অলোক ম্যানগ্রোভ বনাকুল :

শালবনে অধিকাংশ উচিলস পরিমোটী হচ্ছে পীড়িকালে একের পাতা করে যাব। অপরদিনে ম্যানগ্রোভ বনের উচিলস প্রকারি উচীপকার এবং চিরসুসুকু : ম্যানগ্রোভ বনের নিদিষ্টকুলে জোড়ারের পানিতে সিংহ হয়। শালবনের মাটি লাল, অটীর, পীড়িকালে শুক্র এবং বাঁচাকালে কর্মসূক্ত থাকে, তিনু ম্যানগ্রোভ বনের মাটি শুক্র বা পাতা শুক্র, ফালীয় হয় এবং মাটিতে অভিযোগের অভ্যন্তর থাকে। শালবনে উচীপ, নিমি অলোক বিভূত যাকে তালা ও বাইস বলে। অপরদিনে ম্যানগ্রোভ বন অসম্ভব নদী-উপনদী ও জানানের হোট হোট অলোক বিভূত থাকে। শালবনে বার্বিক বৃক্ষসমূহের পরিমাণ ১২৫ সে. মি. প্রতি হাতে পুরুষ পুরুষ হয়। অপরদিনে ম্যানগ্রোভ বনে উচিলসের অভিযোগের অন্য বিশেষ বৈশিষ্ট্য সামুদ্র, টেস্মুল ও কুজুমুল ইত্যাদি দেখা যায়, তিনু শালবনের উচিলিতে এসব বৈশিষ্ট্য দেখা যায়। তাছাড়া শালবনের বাতাসে অলীর বাল্পের প্রতিমাণ অপেক্ষাকৃত কম থাকে। অপরদিনে ম্যানগ্রোভ বনের বাতাসে অলীর বাল্পের প্রতিমাণ বেশি থাকে।

প্রশ্ন ▶ ৩



চিত্র : P



চিত্র : Q

ক. বাংলাদেশের বিলুপ্তপ্রায় একটি উচিলসের বৈজ্ঞানিক নাম কোনো? ১

খ. উচিলসূচীর সবুজ বেটীনীর অন্য কেবল ধরনের বৃক্ষ নির্বীচল করা যাব? ২

গ. উচীপকের 'Q' উচিলসমূহ সংরক্ষণের ক্ষেত্রে কোন পদ্ধতি উচিলসূচু— কারণ দেখো। ৩

ঘ. উচীপকের P এবং Q উচিলসমূহ তিনি পরিবেশে অসম্ভব একের মধ্যে অভিযোগন্তর সামুদ্র বিদ্যমান— ব্যাখ্যা করো। ৪

৩. নং প্রশ্নের উত্তর

১. বাংলাদেশের বিলুপ্তপ্রায় একটি উচিলসের বৈজ্ঞানিক নাম Corypha salicaria :

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Maharashtra State Gazetteers: General Series: Maharashtra, land and its people Maharashtra (India),1968

Concrete International ,2001

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Mechanism Design for Robotics Marco Ceccarelli,Alessandro Gasparetto,2019-06-21 MEDER 2018 the IFToMM International Symposium on Mechanism Design for Robotics was the fourth event in a series that was started in 2010 as a specific conference activity on mechanisms for robots The aim of the MEDER Symposium is to bring researchers industry professionals and students together from a broad range of disciplines dealing with mechanisms for robots in an intimate collegial and stimulating environment In the 2018 MEDER event we received significant attention regarding this initiative as can be seen by the fact that the Proceedings contain contributions by authors from all around the world The Proceedings of the MEDER 2018 Symposium have been published within the Springer book series on MMS and the book contains 52 papers that have been selected after review for oral presentation These papers cover several aspects of the wide field of robotics dealing with mechanism aspects in theory design numerical evaluations and applications This Special Issue of Robotics https://www.mdpi.com/journal/robotics/special_issues/MDR has been obtained as a result of a second review process and selection but all the papers that have been accepted for MEDER 2018 are of very good quality with interesting contents that are suitable for journal publication and the selection process has been difficult

Historical Survey of Inhabitable Artificial Atmospheres William Francis Ashe,1958 Current Science ,1980 **Strathmore's Who's Who, 2000-2001** Strathmore Directories, Limited,2001-05

Protection of Human Rights Khwaja Abdul Muntaqim,2006 **Directory of American Scholars** Rita C. Velázquez,1999 Completely updaed this 9th edition presents biographical profiles of United States and

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