

বহুনির্বাচনি অতীকা

জীববিজ্ঞান

প্রথম পত্র

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

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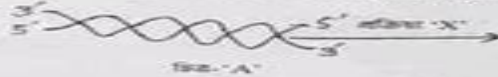
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বিশেষ প্রক্রিয়া : সরবরাহকৃত বহুনির্বাচনি অতীকার উত্তরপত্রে প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি কল পয়েন্ট কলাম দ্বারা সম্পূর্ণ ভরটি কর। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রে কোনো প্রকার দাণ্ড/চিহ্ন দেয়া যাবে না।

উদ্ভীপকের আলোকে পরবর্তী দুইটি প্রশ্নের উত্তর দাও :



চিত্র-'A'



চিত্র-'B'

- চিত্র-'A' ও 'B' উভয়ের ক্ষেত্রে প্রযোজ্য—
(ক) পরীচালনা, ক্রমবিন্যাস ও বিপরীতমুখী
(খ) প্রধানতঃ সাইটোজোমে অবস্থান করে
(গ) অসংখ্য নিউক্লিওটাইডমুক্ত
(ঘ) প্রতিনিপনের মাধ্যমে সৃষ্টি হয়
- উদ্ভীপকে সংশ্লিষ্ট প্রক্রিয়া 'X' ও 'Y' এর ক্ষেত্রে নিচের কোনটি সঠিক?
(ক) উভয় প্রক্রিয়া রাইবোজোমে সংশ্লিষ্ট হয়
(খ) প্রক্রিয়া 'Y' এর সাথে tRNA এর সাথে সংশ্লিষ্ট
(গ) উভয় প্রক্রিয়ায় পলিমারেজ এনজাইম প্রয়োজন
(ঘ) প্রক্রিয়া 'X' এর রাইমার তৈরি হয়
- নিচের কোনটি ম্যাগলেরিয়া পরজীবীর ইরাইট্রোসাইটিক সাইজোপ্লাস্মি সংশ্লিষ্ট?
(ক) স্পোরোজোয়েট
(খ) ক্রিনোমেরোজোয়েট
(গ) ক্রিনোজোয়েট
(ঘ) ট্রফোজোয়েট
- Cytosol উদ্ভিদের কী জননাস কী নামে পরিচিত?
(ক) মাইটোসোম্পোরোফিস
(খ) মেগাসোম্পোরোফিস
(গ) মেট্রাবিল্যাস
(ঘ) সোরাস

উদ্ভীপকের আলোকে পরবর্তী দুইটি প্রশ্নের উত্তর দাও :



- উদ্ভীপকের প্রক্রিয়াটি নিচের কোথায় সংশ্লিষ্ট হয়?
(ক) মেডকোথে
(খ) জননকোথে
(গ) হ্যাঙ্গোয়েট জীবের জাইগোটে
(ঘ) ডিম্বোয়েট জীবের জাইগোটে

- উদ্ভীপকের প্রক্রিয়াটির ফলে জীবে কী ধরনের পরিবর্তন সাধিত হয়?
I. নতুন বৈশিষ্ট্যসম্পন্ন প্রকরণ সৃষ্টি হয়
II. জিনের নতুন বিন্যাস হয়
III. অণুত্যা কোষে ক্রোমোজোম সংখ্যা সমান হয়
নিচের কোনটি সঠিক?
(ক) I ও II
(খ) I ও III
(গ) II ও III
(ঘ) I, II ও III

- নিচের কোন প্রযুক্তি প্রয়োগ করে জীবের জিনোটাইপের পরিবর্তন ঘটানো যায়?
(ক) জিন কালচার
(খ) জিন ক্রেনিং
(গ) জিন ক্রেনিং
(ঘ) জিন ক্রেনিং

- নিচের কোনটির মাধ্যমে হ্যাঙ্গোয়েট উদ্ভিদ উৎপাদন করা যায়?
(ক) মেরিস্টেম কালচার
(খ) ক্যালাস কালচার
(গ) পরাধারী কালচার
(ঘ) কক্ষ মুকুল কালচার

- নিচের কোন তিস্যুর কোষগুলো আকারে ছোট এবং সৈধ্য ও রাই ব্রাদ সমান?
(ক) ডাকক তিস্যু
(খ) সরল তিস্যু
(গ) জটিল তিস্যু
(ঘ) কলকাকারী তিস্যু

উদ্ভীপকটি লক্ষ্য কর এবং পরবর্তী দুইটি প্রশ্নের উত্তর দাও :
মুকোজ — P —> পাইলটিক এসিড — Q —> অ্যানিটাইল — কো এ



- উদ্ভীপকের 'P' ধাপের ক্ষেত্রে প্রযোজ্য—
I. মুকোজের আংশিক জাভন ঘটে
II. কার্বন ডাইঅক্সাইড উৎপন্ন হয়
III. ২টি ATP এবং ২টি NADH+H⁺ উৎপন্ন হয়
নিচের কোনটি সঠিক?
(ক) I ও II
(খ) I ও III
(গ) II ও III
(ঘ) I, II ও III

- উদ্ভীপকের 'P' এবং 'R' উভয় ধাপের ক্ষেত্রে সাদৃশ্য কোনটি?
(ক) মাইটোকন্ড্রিয়াতে সংঘটিত হয়
(খ) সমপরিমাণ শক্তি উৎপন্ন করে
(গ) O₂ এর উপস্থিতিতে সংঘটিত হয়
(ঘ) সবাত শ্বসনের পর্যায়

[পর পৃষ্ঠা দ্রষ্টব্য]

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