

সময় : ৩ ঘণ্টা, পূর্ণমান (৭০ + ৩০) = ১০০

সুজনশীল প্রশ্ন (মান-৭০)

(যেটি ১১টি প্রশ্ন থাকবে : ৭টি প্রশ্নের উত্তর দিতে হবে।)

১। বিলিমের ব্যক্তির ঘাসে টিপের ছেঁচি পেয়ারা পাখিটি ছয় মাসে অনেক লড়া হয়েছে। সে মাছের কাছে জানলো কোথায় বিজ্ঞানের কারণে এমন হয়েছে। তা শেষে বললেন, "বংশগতি নির্ধারণে ক্রোমোজোম, DNA এবং RNA এর ভূমিকা রয়েছে।"

- ক. ছিগেরিসি কী? ১
খ. ইন্টারফেস বলতে কী বোঝায়? ২
গ. উদ্ভীপকের বিজ্ঞান প্রক্রিয়ার দীর্ঘস্থায়ী ধাপটি ব্যাখ্যা কর। ৩
ঘ. মাছের বলা শেষ উদ্ভিতির দ্বার্বতা বিশ্লেষণ কর। ৪

২। বড়শিতে বেঁচে গেছে মানুষ মাছ ধরা অবস্থান আলীর শব্দ। সে প্রতিদিন মাছ ধরা শেষে মাঠে চরানো তার প্রিয় শাখীটিকে নিয়ে বাড়ি ফেরে।

- ক. প্রেরিফিয়ার্স কাকে বলে? ১
খ. নিউক্লিয়ার হাইড্রার বৈশিষ্ট্যপূর্ণ কোষ- ব্যাখ্যা কর। ২
গ. বড়শিতে ব্যবহৃত প্রাণীটির বৈশিষ্ট্য লেখ। ৩
ঘ. অবস্থান আলীর দৃঢ় মাছ এবং মাঠে চরানো প্রাণীটি একই পর্বতস্থ হলেও প্রেরি ভিন্ন- বিশ্লেষণ কর। ৪

৩। বায়ুশুদ্ধকরণ লক্ষ কর ও প্রশ্নগুলোর উত্তর দাও :

- ঘাস → পতঙ্গ → ছেঁচিমাছ → ইঁস
ক. জৈব উপাদান কী? ১
খ. বিজ্ঞানকে বলতে কী বোঝায়? ২
গ. উদ্ভিগিত শুদ্ধকরণ বায়ুশুদ্ধকরণ চিত্রসহ ব্যাখ্যা কর। ৩
ঘ. উক্ত শুদ্ধকরণ না থাকলে পরিবেশের উপর কী প্রভাব পড়বে? বিশ্লেষণ কর। ৪

৪। তালহা ইদারীং কিছুই খেতে চায় না। তার বাওরার অণুটি এবং বমি বমি ভাব হয়। তার ত্বক রসবসে হয়ে যাচ্ছে। ডাক্তারের পরামর্শন হলে ডাক্তার তাকে ডিম ও দুধ বেশি করে খেতে বললেন।

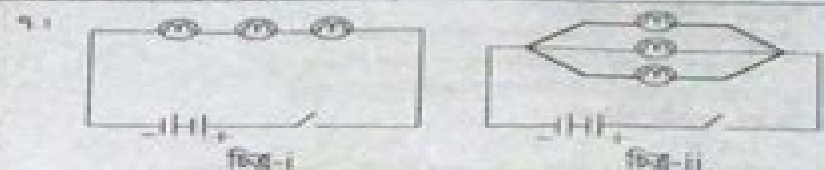
- ক. খাদ্য কী? ১
খ. পুষ্টি বলতে কী বোঝায়? ২
গ. ডাক্তার তালহাকে উদ্ভিগিত খাবারগুলো খেতে বললেন কেন? ৩
ঘ. ডাক্তারের পরামর্শমতো খাবার না খেলে পরবর্তীতে তালহার আরও কী সমস্যা হতে পারে? বিশ্লেষণ কর। ৪

৫। কৃত্রিম উপগ্রহের প্রতি নোমানের খুবই আগ্রহ রয়েছে, কারণ এটি যোগাযোগ রক্ষা ছাড়াও আবহাওয়া ও সামরিক ক্ষেত্রে অবদান রেখেই চলেছে।

- ক. মহাকাশ কী? ১
খ. মহাকাশের উপলব্ধি ব্যাখ্যা কর। ২
গ. উদ্ভীপকের মস্তিষ্ক কীভাবে পৃথিবীর চরমিকে নির্দিষ্ট কক্ষপথে ঘোর তা ব্যাখ্যা কর। ৩
ঘ. নোমানের পক্ষের মস্তিষ্ক যেসব ক্ষেত্রে অবদান রেখে চলেছে তা মূল্যায়ন কর। ৪



- ক. লেখতে কোন ধরনের এসিড থাকে? ১
খ. নির্দেশক বলতে কী বোঝায়? ২
গ. উদ্ভীপকের বিজ্ঞান বৈশিষ্ট্য বৈশিষ্ট্য ব্যাখ্যা কর। ৩
ঘ. উদ্ভিগিত বৈশিষ্ট্য বায়ুশুদ্ধকরণ অলোচনা কর। ৪



- ক. অতিরিক্ত বর্তনী কাকে বলে? ১
খ. ও'মের সূত্রটি ব্যাখ্যা কর। ২
গ. চিত্র-১ কী ধরনের বর্তনী ব্যাখ্যা কর। ৩
ঘ. কোন বর্তনীটি পুষ্টির জন্য সুবিধাজনক যুক্তিসহ বর্ণনা কর। ৪
৭। সেভিয়ান ও সালফিউরিক এসিডের মধ্যে বিক্রিয়া ঘটানো হলো।
ক. যোজনী কাকে বলে? ১
খ. CO_2 এবং CO_3^{2-} -এর মধ্যে পার্থক্য বোঝাও। ২
গ. প্রমাণ কর বিক্রিয়া শেষে পরমাণু সংখ্যার কোন পরিবর্তন ঘটে নাই। ৩
ঘ. এটি কোন ধরনের বিক্রিয়া তা যুক্তিসহ ব্যাখ্যা কর। ৪
৮। i. পুরুশক্তি ২. লঘুশক্তি
ক. সিন্যাস কী? ১
খ. অক্সিজেনের কাজ লেখ। ২
গ. উদ্ভীপকের (ii) না এর বিভিন্ন অংশে বর্ণনা কর। ৩
ঘ. উদ্ভীপকের (i) না বিশেষ কর্মক্ষেত্র হিসেবে কাজ করে- তাৎপর্য বিশ্লেষণ কর। ৪

১০। নিচের চিত্রগুলো লক্ষ কর এবং প্রশ্নগুলোর উত্তর দাও :



- ক. প্রজনন কাকে বলে? ১
খ. পরাগায়ন বলতে কী বোঝায়? ২
গ. M, N, O, P অংশের সমন্বয়ে গঠিত উদ্ভিদ অঙ্গটির লক্ষণের চিত্রিত চিত্র অঙ্কন কর। ৩
ঘ. M, O, P এর মধ্যে কোন দুটি অংশে উদ্ভিদের বংশবিস্তারে অধিক গুরুত্বপূর্ণ যুক্তিসহ তুলে ধর। ৪

১১। জিহান তার পরীকে আত্মক ব্যবহার করায় সহপাঠীরা তার দ্রাণ পায়। অপরদিকে সিয়াম দেখতে পায় শুকনো ও কুঁচকানো কিসমিসগুলো পানিতে ভিজিয়ে রাখলে স্ফীত হয়ে ওঠে।

- ক. প্রথমদ কাকে বলে? ১
খ. শুকনো কঠ পানিগ্রাহী- ব্যাখ্যা কর। ২
গ. সহপাঠীদের দ্রাণ পাওয়ার কারণ ব্যাখ্যা কর। ৩
ঘ. উদ্ভীপকে সংশ্লিষ্ট প্রক্রিয়াগুলো উদ্ভিদ ও প্রাণীর জীবনে গুরুত্বপূর্ণ- বিশ্লেষণ কর। ৪

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John Pritchard



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1988 NASA Authorization United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Transportation, Aviation, and Materials, 1987 **English Mechanic and Mirror of Science** ,1891
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