

## ক সেট

জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা,  
বিজ্ঞান (সৃজনশীল + বহুনির্বাচনি অধীক্ষা)

বিষয় কোড :

1 2 7

সময়—৩ ঘণ্টা

পূর্ণমান—৭০+৩০=১০০

সৃজনশীল প্রশ্ন

মান—৭০

[প্রটো :—জান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রদত্ত উদ্ভীপকগুলো মনোযোগসহকারে পড় এবং সঠিকটির প্রশ্নের উত্তর দাও।  
যে কোনো সাতটি প্রশ্নের উত্তর দিতে হবে।]

১।



চিত্র : A



চিত্র : B

- (ক) Spongilla কোন পর্বের প্রাণী?  
(খ) স্থিতিশীল নামকরণ বলতে কী বুঝ?  
(গ) চিত্র 'A' এর প্রাণীটি যে প্রেক্ষিতকৃত তার বৈশিষ্ট্য বিশ্লেষণ কর।  
(ঘ) চিত্র 'A' ও চিত্র 'B' এর প্রাণীগুলোর মধ্যে প্রাণীর বৈশিষ্ট্যের তুলনামূলক আলোচনা কর।

২।



চিত্র : জনন মাতৃকোষ

- (ক) মানবদেহের প্রতিটি সেলকোষের ক্রোমোজোম সংখ্যা কয়টি?  
(খ) মিয়োসিসকে হ্রাসমূলক বিভাজন বলা হয় কেন?  
(গ) উদ্ভীপকের কোষ বিভাজন প্রক্রিয়াটি ব্যাখ্যা কর।  
(ঘ) "উদ্ভীপকে উদ্ভিদ্ধিত বিভাজন প্রক্রিয়া মাইটোসিস বিভাজন থেকে সম্পূর্ণ ভিন্ন"—উক্তিটির যথার্থতা বিশ্লেষণ কর।

৩। আটক তার শরীরে সেট ব্যবহার করায় অনেকাংশ তার শ্রাণ পেল। পরদিন সে তার সাধারণ বিজ্ঞান শিক্ষককে জিজ্ঞাসা করল এটা কেন হয়? শিক্ষক বলল "পর্বতের অণুগুলো অধিক ঘনত্বের স্থান থেকে কম ঘনত্বের স্থানে ছড়িয়ে পড়ে।"

- (ক) ভেনা পর্দা কাকে বলে?  
(খ) ব্যাপন ও অভিস্রবণের মধ্যে দুইটি পার্থক্য লিখ।  
(গ) যে প্রক্রিয়ার মাধ্যমে সেট এর শ্রাণ ছড়িয়ে পড়ে তার বর্ণনা দাও।  
(ঘ) উদ্ভিদ্ধিত প্রক্রিয়াটির গুরুত্ব আলোচনা কর।

# Jsc Out Science Questions 2014

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**NASA's Human Space Exploration** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space,2012     Materials Science and Metallurgical Technology III Andrey A. Radionov,2022-02-03 Selected peer reviewed full text papers from the 4th International Russian Conference on Materials Science and Metallurgical Technology RusMetalCon 2021     Commerce, Justice, Science, and Related Agencies Appropriations for 2016 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2015     **Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis** National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Space Studies Board,Committee on Extraterrestrial Sample Analysis Facilities,2019-03-29 The United States possesses a treasure trove of extraterrestrial samples that were returned to Earth via space missions over the past four decades Analyses of these previously returned samples have led to major breakthroughs in the understanding of the age composition and origin of the solar system Having the instrumentation facilities and qualified personnel to undertake analyses of returned samples especially from missions that take up to a decade or longer from launch to return is thus of paramount importance if the National Aeronautics and Space Administration NASA is to capitalize fully on the investment made in these missions and to achieve the full scientific impact afforded by these extraordinary samples Planetary science may be entering a new golden era of extraterrestrial sample return now is the time to assess how prepared the scientific community is to take advantage of these opportunities Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis assesses the current capabilities within the planetary science community for sample return analyses and curation and what capabilities are currently missing that will be needed for future sample return missions This report evaluates whether current laboratory support infrastructure and NASA s investment strategy is adequate to meet these analytical challenges and advises how the community can keep abreast of evolving and new techniques in order to stay at the forefront of extraterrestrial sample analysis     *Papers and Proceedings of the Royal Society of Tasmania* Royal Society of Tasmania,1906     Locomotive Engineering ,1896     *Metals Abstracts* ,1992     Basic Science Questions 2014 Gary Piscopo,2014-03-10

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