

জেএস সি পরীক্ষা ২০১৪ এর মডেল প্রশ্ন

বিষয় : বিজ্ঞান (সৃজনশীল প্রশ্ন)

সময়: ২ ঘন্টা ১০ মিনিট

পূর্ণমান : ৬০

[বি.দ্র: ডান পার্শ্বস্থ সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রদত্ত উদ্দীপক ওলো মনোযোগ দিয়ে পড় এবং সংশ্লিষ্ট প্রশ্নগুলোর যথাযথ উত্তর দাও। যে কোন ৬টি প্রশ্নের উত্তর দাও।]

১। ইমির বাবা বাজার থেকে একটি রুই মাছ কিনে আনল। ইমি লক্ষ্য করল তার মা মাছটি কাটার সময় মাছের পেটে ডিম রয়েছে। ইমি তখন তার বাবার কাছে জানতে চাইল মাছ, মুরগি, গরু এরা মেরুদণ্ডী প্রাণী তবুও এদের মধ্যে বৈশিষ্ট্যগত পার্থক্য রয়েছে কেন?

- (ক) শ্রেণিবিন্যাসের জনক কে? ১
- (খ) সন্ধিপদী প্রাণিরা গুরুত্বপূর্ণ কেন? ২
- (গ) ইমির বাবার কিনে আনা প্রাণিটির শ্রেণিগত অবস্থান ব্যাখ্যা কর। ৩
- (ঘ) উদ্দীপকের শেষের লাইনটির কারণ যুক্তিসহ উপস্থাপন কর। ৪

২। নিচের চিত্রটি লক্ষ্য করে প্রশ্নগুলোর উত্তর দাও।



- (ক) মানবদেহে প্রতিটি কোষে ক্রোমোজোম সংখ্যা কত? ১
- (খ) ক্যারিওকাইনোসিস ও সাইটোকাইনোসিস বলতে কী বুঝ? ২
- (গ) বংশগতি রক্ষায় উদ্দীপকের চিত্রের 'ক' অংশের ভূমিকা ব্যাখ্যা কর। ৩
- (ঘ) উদ্দীপকের চিত্রটির বিভাজনের ধাপগুলো বিশ্লেষণ কর। ৪

৩। মিসেস মরিগম সকালে পার্কে হাঁটতে গিয়ে লক্ষ্য করলেন গাছের পাতায় বিন্দু বিন্দু পানি জমে আছে। অথচ আগের দিন বিকালে দেখেছিলেন গাছের পাতাগুলো নেতিয়ে পড়া ছিল।

- (ক) কোন ধরনের উদ্ভিদ সারা দেহ দিয়ে পানি শোষণ করে? ১
- (খ) ব্যপন চাপ বলতে কী বুঝ? ২
- (গ) গাছের পাতায় বিন্দু বিন্দু পানি জমে থাকার কারণ ব্যাখ্যা কর। ৩
- (ঘ) গাছের পাতাগুলোকে নেতিয়ে পড়া থেকে রক্ষা করতে কী ব্যবস্থা নেয়া যেতে পারে? যুক্তিসহ বিশ্লেষণ কর। ৪

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Metadata Standards and Web Services in Libraries, Archives, and Museums Erik Mitchell, 2015-10-21 Metadata in library information environments is evolving rapidly. This book provides readers with a set of tools for designing, developing, and implementing metadata-rich information systems while also examining the challenges and opportunities in this field. As the world of library and information science has developed in the age of digital information, metadata and metadata-rich information systems have become increasingly important and more complex and confusing. This book will enable students, instructors, and practitioners in the information science field to understand how these new systems and standards will impact their careers and professions. Author Erik Mitchell explores definitions of information and presents an up-to-date consideration of user needs in information systems to provide necessary background before moving on to in-depth discussions of metadata information organization practice and information system design. Each chapter incorporates hands-on activities to complement the reading material, allowing readers to build technical skills alongside the important conceptual learning in this content area. Readers will gain conceptual understanding and skills that will allow them to analyze and transform structured data, develop metadata-rich information systems, and design systems with user needs and digital literacies in mind. This book is intended for library and information science students taking information organization, metadata, or other core digital cataloging classes but will also be highly useful for professionals seeking to learn the details of metadata systems and theory using a hands-on approach.

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 *Aurora 7* Colin Burgess, 2015-08-28 TO A NATION enthralled by the heroic exploits of the Mercury astronauts the launch of Lt Cmdr Scott Carpenter on NASA's second orbital space flight was a renewed cause for pride jubilation and celebration Within hours that excitement had given way to stunned disbelief and anxiety as shaken broadcasters began preparing the American public for the very real possibility that an American astronaut and his spacecraft may have been lost at sea In fact it had been a very close call Completely out of fuel and forced to manually guide Aurora 7 through the frightening inferno of re entry Carpenter brought the Mercury spacecraft down to a safe splashdown in the ocean In doing so he controversially overshot the intended landing zone Despite his efforts Carpenter's performance on the MA 7 mission was later derided by powerful figures within NASA He would never fly into space again Taking temporary leave of NASA Carpenter participated in the U S Navy's pioneering Sealab program For a record 30 days he lived and worked aboard a pressurized habitat resting on the floor of the ocean becoming the nation's first astronaut aquanaut explorer Following extensive research conducted by noted spaceflight historian Colin Burgess the drama filled flight of Aurora 7 is faithfully recounted in this engrossing book along with the personal recollections of Scott Carpenter and those closest to the actual events **Handprints on Hubble** Kathryn D.

Sullivan, 2019-11-05 The first American woman to walk in space recounts her experience as part of the team that launched rescued repaired and maintained the Hubble Space Telescope The Hubble Space Telescope has revolutionized our understanding of the universe It has among many other achievements revealed thousands of galaxies in what seemed to be empty patches of sky transformed our knowledge of black holes found dwarf planets with moons orbiting other stars and measured precisely how fast the universe is expanding In *Handprints on Hubble* retired astronaut Kathryn Sullivan describes her work on the NASA team that made all of this possible Sullivan the first American woman to walk in space recounts how she and other astronauts engineers and scientists launched rescued repaired and maintained Hubble the most productive observatory ever built Along the way Sullivan chronicles her early life as a Sputnik Baby her path to NASA through oceanography and her initiation into the space program as one of thirty five new guys She was also one of the first six women to join NASA's storied astronaut corps She describes in vivid detail what liftoff feels like inside a spacecraft it's like being in an earthquake and a fighter jet at the same time shows us the view from a spacewalk and recounts the temporary grounding of the shuttle program after the Challenger disaster Sullivan explains that maintainability was designed into Hubble and she describes the work of inventing the tools and processes that made on orbit maintenance possible Because in flight repair and upgrade was part of the plan NASA was able to fix a serious defect in Hubble's mirrors leaving literal and metaphorical handprints on Hubble *Handprints on Hubble* was published with the support of the MIT Press Fund for Diverse Voices

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