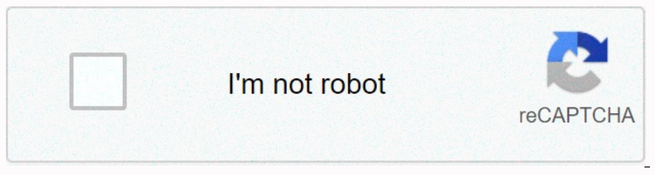

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Materi osn biologi sma pdf

A simple search is to search for a collection using only one search criterion. Enter a search keyword, for example: Social society Select the field you are looking for, such as Title . Select a collection type, such as Monograph (book) , or leave it to all types of materials Option Press the Search button or press Enter on the keyboard OSN BIOLOGY BOOK SMA FIFTH EDITION viewed summary of materials and exercises about IBO Book OSN Biology SMA Fifth edition This editorial is a summary of materials Olympic biology Indonesia and preparing to face the international olympiad in biology (IBO). Biology today can be said to be a more interesting modern science to study. The development of biology in various fields such as biotechnology, environment, medicine, agriculture, livestock, marine and other influenced social and economic life in society. The International Biology Olympiad (IBO) is a world competition for high school students that has been held 28 times by 2017. Indonesia has been involved in the IBO, sending students since 2000. On July 5-13, 2014, Indonesia took the 25th IBO in Bali. Students' ability will be tested in response to biological problems of both theory and practice. The assessment will also be the curiosity and creativity of biology students. Various biological topics are fully used as theoretical and experimental test materials in IBO, including: cell and molecular biology; microbiology; biotechnology; plant anatomy and physiology; anatomy, physiology of animals and humans; etology; genetics and evolution; ecology; and bisysmatically. This IBO Material Summary and Practice Book is expected to assist students in mastering and understanding the concepts of modern biology. The book in your hand is an Olympic book series of biology. This book is composed in 4 series, namely: OSN Biology SMA - Osn Summary of Biology and IBO Materials Preparation, Biology Workshop Guide: Laboratory Concepts and Skills, Osn Biology High School Problem and Exercise Solutions, and OSN High School Biology Discussion. The first series of the book presents a summary of materials and concepts in accordance with the curriculum of Olympic biology. The second series contains biological recommendations of practice, which are neatly presented as a means of practice in the practice of biological Olympiad. The third series presents a wide variety of issues that often appear in the Biological Olympiad. Surely it has various alternative examples of solutions. The fourth series is a full discussion of the Olympiad in Biology. Both district, provincial and national Olympics in preparation for the International Biology Olympiad (IBO). In this paper, we thought out how I studied the High School Biology Olympiad from scratch and what will be learned, so if you are already feeling good, please go to part 3. So, before you go any further, I just want to say that you chose the Wrong Olympics, so move to another field because the Biology Olympics are an Olympics full of terror, grief, and that undoubtedly takes away your precious youth. (angry laughter) jokes :p Yes, like all the clichés told by all the bioolims of children from time immemorial, they all say biology is good. But it's up to you personally, so you really want nganggep biology, that's how, just when you stepped on the Olympics title, I just want to say throw away the stigma that biology is apalan. Memorizing printed books is the lowest level of intellectual order (he said), and here we will study biology with a higher intellectual level, namely analysis and synthesis. (ga apparently continue not have to ngapal anyway, just the essence of high order thinking skill, that's how we analyze the problem then related to the concept that we have). What to learn well, what you need to learn to look forward to your glorious future? Well, in the Biology Olympiad there are 5 main language groups (if physics is only 1, namely, mechanics and geography can be up to 10 more hahaha) Namely cellular and molecular biology (hereinafter called Biselmol) 25% Anatomy of Animal Physiology (hereinafter referred to as Anphyswan)25% Anatomy of Plants Physiology (hereinafter referred to as Anphystum)15% Genetics and Evolution (hereinafter - Geneva)25% Etology, ecology, biosystetics 10% (Note that this article was written with following the rules of 2017 , please check again the rules pull up you like how). So in the Olympic material it is generally known that the tested material is usually above the usual school material. For example, when I was a 2011 OSN SD, the material was studied mostly by junior high school material, even some touched on school material. Kalo OSN SMA is definitely more material material, namely lecture material. That's why OSN training can't be done in a short time, such as the H-7 new race holding the book so (if a good answer doesn't play). When I osn primary school training from 4th grade, although the implementation of the competition only fits the 6th grade, and OSN high school training was from 10th grade, and just arrived at the national level fitting 11th grade. The fact is that it took a long time. The introduction of A. Bizelmol Biology, which we have studied since primary school, generally touches the language at the body level. Here you tend to learn from very small languages, at the cell level, even less. For example, what DNA is like is how DNA works and is regulated by how cells multiply and usually somewhat offensive biotechnology and biochemistration it is. There are many new things to learn from here, and is a very warm field study among scientists, because in fact the location of living things in the cell and the molecular level is something that is still unexplored, there is still much that we do not know, because biomol evolved only in the mid-20th century. An easy example that we will study later is the structure of DNA, for example. Anphystum So here we study plant anatomy and physiology, what's the difference? So if the anatomy is more to the structure and shape for plants, for example, what is evident is if we cut the stem of plants transversely, while physiology is how living things exercise the nature that has been given by God, such as the flow of process when photosynthesis occurs. Anthomic physiology of Anfiswan Material is a favorite hehe, so there is interest in medicine can get the main basis of this material. But... Although the name is anatomical physiology, don't expect you to dapet anatomical material if you want gapapa if I'm still ogah. Because anatomy is a very wide gabung. You can see for yourself in Sobot's medical book that you can make a DP Honda PCX 150 CBS, anatomy for example, like this. It's only the heart of the doang, not being different. Fortunately, rarely (or even never?) has been tested at the Olympics. So we can say that although the name of the material - anatomy and physiology of animals, the name of anatomy - is just a paste. So in this debate we will focus on the physiology of Yes Physiology here, despite writing animal physiology, the amount of discussion about human physiology so deh, although sometimes animal physiology can turn out about the problem. Suppose you run out of sports lessons, then you're thirsty to go to Ind*march, then you want to buy a drink, then you're confused because if in a P*cari Sweat ad you should have a drink-lister, whereas the price of Pocari Sweat in Ind*Maret is expensive. Much cheaper Aq*a really. Well, when you're just chugging Aq*a, there's a reaction in the body that's actually a bit counterproductive to the body fluid balance system, so actually the P*cari Sweat ad is real. Geneva If black people and white people get married, what are the chances that their children will undress? Genetics tends to be divided into a variety of topics, such as Delian's Genetics with its abnormalities, then because genetics deals with how traits are obtained, so we also discuss how DNA reduces parents' properties to anak2nya as cells multiply, so genetic material also intersects with Biselmol. You will also later learn how genetics are at the evolutionary level. In fact, one of the materials is really simple, like what we used to do when junior high school is 9th grade, but the development (and unfortunately a lot really) later is something interesting, such as a 6-fingered atal is dominant, but why in general there are only 5 fingers in the community? Ethology Your etological biosyntheology will study how animals behave. Suppose you often see a movie when a duck egg hatches, it will assume that the closest moving object he sees is his mother. Well, this is one of the famous studies conducted by Conrad Lorenz. Interestingly, there are animals of the primate order, only I forgot which animal, so in this group of animals there are alpha males, well, he mastered most females of the line. Then the male, who does not belong to the female, becomes gay. Continue, for example, male fly Drosophila. The first 30 minutes after the neta from the pupa they immediately intend to be paired like this, but they can not bedain males with females, so they will approach the first inies of the pupa, they will try to marry anyone close to them, whether it is a girl or a man, but eventually they managed to recognize the smell of the body of the opposite sex so, so I want the child to have a trial and so Ecology certainly speaks to the environment. This field intersects somewhat with geography, for example, there is a theory that the larger to the pole, the larger the size of the animal and the larger the tropics, the smaller the size of the animal. And a lot to explore here, ga just learn about this biom, what is biom that, in ecology you will also learn ngitung2 so. For example, the calculation of something from environmental sampling is as follows. Biosthematics is a science that classifies living things, either through physical similarity (morphology, physiology, molecular) or through evolutionary affinity. So the debate is about family family and others discussing here. And not only that, you learn how to affinity between living things. For example, when comparing humans, monkeys and whales are certainly clearly visible that monkeys with humans are closer than whales. But when comparing people, plants and fungi, who is more like to humans? Is it a fungus or a plant? Read the link? Be grateful that biology is a relatively good field in terms of reading books. The answer is Campbell's biology. No need to worry when looking for other links. Senior said: If your considerations are strong capital read Campbell Doang will penetrate OSN kok. Campbell is the real name of the man (Neil Campbell), the name of his book And Biology. He died while preparing the 8th edition of the book, now in his honour his colleagues in the next edition changed the name Biology to Campbell Biology. So. From the results of searches everywhere found that overseas people when IBO is so reading Campbell. A slide show requires JavaScript. Well brother, if there's no Campbell, how? (since Campbell's book is also expensive anyway) Can be searched online, so pirated version of you are good at movies, music, pirated manga ginian ha kari ginian time met. Well I'm going to spell out what material campbell is in, and maybe you can find a replacement by looking through the internet. After discussing for the section I explained which sections need to be urgently examined first. This is me pake edition 8, plural edition found a printed version on the market (because the translation indo new ed 8, while if outside it is already there Campbell ed 11) Well, to start training, you have to ain I think to read the chapter of the initial section, namely chapters 2-5, where they say molecules builder organism, suppose you often hear how protein is a bodybuilding substance but what exactly does it look like? What is the form of the hormone? The shape of the enzyme? Now this is explained here, and such a thing will be held for the rest of life. Chapters 6 through 7 explain how cells are arranged and the sequence works. Chapter 8,9,10 discusses metabolism. It is often said that the function of the oxygen we breathe is to serve to burn food substances. However, if you have read this, you will be enlightened that the metabolism process is not asharfiya burning, here it will be explained what ATP is, how photosynthesis occurs. Chapters 11-13 are cellular biological materials where you learn cell cycles occur. Chapters 15-16 are genetic material, mating ercis seeds and so on with their development. Chapters 17-18 you will study central dogma in biology, such as how DNA, which is a passive chemical formula, can move organic bodies in such difficult conditions. My advice is that when you study biology, you should understand what chapters from chapters 2-12 say, and then you step on other biological materials. Indeed, to read Campbell you don't need to be in order to read it, but it would be nice if you understand the basic concept before moving on to Chapter 20 and up because they tend to use concepts that were built from chapters 2-12. Chapter 1-21 in Volume 1 (if issue 8) Chapter 22-39 is in Volume 2, Chapter 40-56 is volume 3 (this version of indo, callo version of eBook or buy Campbell yg English was combined into 1 book) So for general description, Volume 1 is the material of Biomolecules, Bioceles, Metabolism, Genetics, and DNA Expression until it becomes a protein Volume 2 is the material of Evolution , Anatomy, physiology, and plant systematics., the same introduction of biosthematics. It also discusses bacteria and proteins like this. Volume 3 is the number of animal physiology (Regulation, excreation, nerves, etc.) of ecology and etology. How many dong kak read 1000 pages so? My advice, you guys, set aside half an hour an hour to take Campbell out. It is important to be commonplace. I used to buy Campbell on October 10, 2015, and he had just finished around May 4, 2016. About six months, but if you're going to do it, you can do it. Get out of it. I heard the story of a child who had just read Campbell and could be named in three months. So for Part 2, if there is a question or want to add it can be through the comment box. Comments.