

## BIOLOGY – 2<sup>ND</sup> SEMESTER FINAL EXAM STUDY GUIDE – 2011

### Chapter 12

1. What do all organisms have in common?
2. Identify a diagram of DNA, label the nitrogen bases, deoxyribose sugar, phosphate group, and nucleotides.
3. What is a DNA nucleotide made of? What is an RNA nucleotide made of?
4. Where is the DNA in a eukaryotic cell? In a prokaryotic cell?
5. What has to happen to DNA in order to start mitosis?
6. What is replication? Describe the steps of the process.
7. Using a DNA strand, make the complementary strand.
8. How is RNA different from DNA? How is it similar?
9. List the 3 types of RNA involved in protein synthesis.
10. Describe transcription. Describe translation.
11. What is a codon? How can an amino acid be coded for by more than 1 codon?
12. What are genes?
13. What's a point mutation? What's a frameshift mutation?
14. How is gene expression regulated in eukaryotes?

### Chapter 13

1. What is selective breeding? Give examples.
2. What is inbreeding? What are some of its ill effects?
3. What's hybridization? Give an example. What does a hybrid have/not have?
4. What causes genetic variation?
5. Draw a double-stranded DNA molecule & show how a restriction enzyme will cut it. What are the sticky ends? Between what bases does the restriction enzyme cut?
6. What's the function of gel electrophoresis?
7. What is recombinant DNA? What are the steps involved in making it?
8. What does genetic engineering involve?
9. How do you make transgenic bacteria? Explain the steps. How is this process useful?

### Chapter 14

1. List everything you can tell from a karyotype.
2. How are chromosomes in a male different from female?
3. What chromosomes do sperm contain? What do eggs contain?
4. Describe the symbols in a pedigree. What does a pedigree show?
5. Describe the genotypes & phenotypes for blood typing.
6. What are linked genes?
7. Where are sex-linked traits found? Give examples. Why are they more common in males?
8. What nondisjunction? What does it lead to?
9. Why is DNA fingerprinting a good identifier of people?
10. What's the purpose of gene therapy?

### Chapter 15

1. What are some observations Darwin made on the Galapagos Islands?
2. What was Lamarck's explanation for evolution?
3. What was Darwin's conclusion based on the similarities among the finches?
4. Explain Darwin's theory of evolution by natural selection. What is it also known as?
5. What are adaptations? Give examples.
6. What are vestigial structures? What do they indicate? Give examples.
7. What's a species?

# Second Semester Biology Final Study Guide Answers

**Otto Amhofer**



## **Second Semester Biology Final Study Guide Answers:**

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Biology II Alfred E. Zietlow, 1963      **Biology I** Alfred E. Zietlow, 1963      The Universal tutor London gen. corresp. coll, 1894      College Science Teachers Guide to Assessment Thomas R. Lord, Donald P. French, Linda W. Crow, 2009 This guide is divided into four sections comprising 28 peer reviewed chapters It covers general assessment topics and traditional and alternative assessment techniques A series of how to assessment practices utilized in the field and practical tips to enhance assessment in the college science classroom are included      *CRPF Head Constable (Ministerial) & ASI (Steno) Exam (English Edition) - 7 Full Length Mock Tests and 5 Sectional Tests with Free Access to Online Tests* EduGorilla Prep Experts,      Connected Science Tricia A. Ferrett, David Geelan, Whitney M. Schlegal, Joanne L. Stewart, 2013-07-10 Informed by the scholarship of teaching and learning SOTL Connected Science presents a new approach to college science education for the 21st century This interdisciplinary approach stresses integrative learning and pedagogies that engage students through open ended inquiry compelling real world questions and data rich experiences Faculty from a variety of disciplines and institutions present case studies based on research in the classroom offering insights into student learning goals and best practices in curriculum design Synthetic chapters bring together themes from the case studies present an overview of the connected science approach and identify strategies and future challenges to help move this work forward      *MCAT 2015: What the Test Change Means for You Now* Kaplan, 2014-08-05 Big changes are coming to the MCAT in 2015 and Kaplan is here to help you prepare for them With four brand new sections 80% more questions and the addition of new science content including biochemistry psychology and sociology the 2015 MCAT will be a completely different test In order to be prepared you need to understand the exam and start planning for it now and this guide is the first step MCAT 2015 What the Test Change Means for You Now is your complete guide to the new exam with outlines of both old and new subject areas a short form practice test to help you get ready and advice on choosing and prepping for the MCAT that s right for you

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the early russian revolutionaries and is widely regarded as a masterpiece of international cinema the film is based on the mutiny of russian sailors against their tyrannical superiors

[sergei michailowitsch eisenstein wikipedia](#) - Feb 15 2022

web sergei michailowitsch eisenstein war ein sowjetischer regisseur seine berühmtesten werke sind die revolutionsfilme panzerkreuzer potemkin und oktober

[films by sergei eisenstein imdb](#) - May 21 2022

web films by sergei eisenstein this list contains films by russian writer director sergei eisenstein notes 1 dnevnik glumova 1923 and romance sentimentale 1930 are short films 2 que viva méxico 1932 is produced in mexico and romance sentimentale 1930 is produced in france

[hallucinating history when stalin and eisenstein reinvented a](#) - Jun 21 2022

web oct 24 2017 ten years after the storming of the winter palace sergei eisenstein s surreal and savage epic oktober reimagined russia s 1917 revolt and parodied stalin who had commissioned it

**sergei eisenstein biyografi info** - Jun 02 2023

web kurgu yeni bir fikri yansıtmak için iki film karesini yanyana koymaktı eisenstein düzenlemesini ünlü şair mayakovsky nin yaptığı montaj teorileri temalı ilk makalesinde yeni bir kurgu anlayışından Çarpıcı kurgu dan söz ediyordu

[serguéi eisenstein wikipedia la enciclopedia libre](#) - Mar 19 2022

web serguéi mijáilovich eizenshtéin en ruso Сергей Михайлович Эйзенштейн en letón sergejs eizenšteins riga 22 de enero de 1898 moscú 11 de febrero de 1948 más conocido como serguéi eisenstein fue un director de cine y

**sergei eisenstein father of montage artland magazine** - Jan 29 2023

web the cover of sergei eisenstein s book of essays on film theory film form published 1949 image courtesy of the smithsonian institution propaganda as art after dabbling in theatre eisenstein created his first feature length film in 1925 strike quickly followed by the revolutionary propaganda film battleship potemkin which would go on to be his most

[sergei eisenstein biography films facts britannica](#) - May 01 2023

web sep 24 2023 sergei eisenstein russian film director and theorist whose work includes the three classic movies battleship potemkin 1925 alexander nevsky 1939 and ivan the terrible released in two parts 1944 and 1958 in his concept of film montage images are presented for maximum psychological impact

**battleship potemkin 1925 imdb** - Apr 19 2022

web battleship potemkin directed by sergei eisenstein with aleksandr antonov vladimir barskiy grigoriy aleksandrov ivan bobrov in the midst of the russian revolution of 1905 the crew of the battleship potemkin mutiny against the brutal tyrannical regime of the vessel s officers



**sergei eisenstein the man the method the montage** - Aug 04 2023

web oct 29 2020 sergei eisenstein strike 1925 who was sergei eisenstein it is difficult to describe eisenstein through any singular role filmmaker theorist architect as eisenstein s role in film history reflects a period of time where innovation in aesthetics storytelling and technology came together from around the globe to transform the

**sergei eisenstein moma** - Feb 27 2023

web sergei mikhailovich eisenstein russian Сергей Михайлович Эйзенштейн romanized sergey mikhaylovich eyzenshteyn ipa sʲɪrˈɡʲej mʲɪˈxajləvʲɪtɕ ɪjzʲɪnˈʂtʲejn 22 january o s 10 january 1898 11 february 1948 was a soviet

**sergei eisenstein wikipedia** - Oct 06 2023

web sergei mikhailovich eisenstein russian Сергей Михайлович Эйзенштейн romanized sergey mikhaylovich eyzenshteyn ipa sʲɪrˈɡʲej mʲɪˈxajləvʲɪtɕ ɪjzʲɪnˈʂtʲejn 22 january o s 10 january 1898 11 february 1948 was a soviet

**sergei eisenstein simple english wikipedia the free encyclopedia** - Sep 24 2022

web sergei eisenstein sergei mikhailovich eisenstein Сергей Михайлович Эйзенштейн sergej mihajlovič ejzenštejn error lang xx text has italic markup help january 23 1898 february 11 1948 was a soviet russian movie director and movie theorist he was known mostly for his silent movies strike the battleship potemkin and october

**sergei eisenstein biography imdb** - Mar 31 2023

web sergei eisenstein jump to edit overview born january 22 1898 riga governorate of livonia russian empire now latvia died february 11 1948 moscow russian sfsr ussr now russia heart attack birth name sergei mikhailovich eizenshtein height 5 7 1 70 m mini bio

**sergey ayzenştayn vikipedi** - Jul 03 2023

web rusya da 1910 lu yıllarda hareketlere çok genç yaşta katılan eisenstein 1920 lerin başında avangard tiyatro ve sanat dünyasıyla temas kurdu ve moskova daki proletkult tiyatrosu na girdi kısa sürede büyük gelişme göstermesiyle birlikte sanat yönetmenliği yönetmenlik yapmaya başladı

**strike the criterion channel** - Jul 23 2022

web directed by sergei eisenstein 1925 soviet union sergei eisenstein s feature film debut strike details the violent uprising in 1903 by factory workers in pre revolutionary russia known widely as one of the founding films of soviet realism and the montage techniques eisenstein would beco

**sergei eisenstein my art in life google arts culture** - Nov 26 2022

web on september 4 1946 the central committee resolved to ban ivan the terrible part two sergei eisenstein has revealed his ignorance in his portrayal of historical facts by representing the progressive army of ivan the terrible s oprichniki as a gang of degenerates akin to the american ku klux klan and ivan the terrible a strong willed

**sergei m eisenstein rotten tomatoes** - Dec 28 2022

web sergei m eisenstein highest rated 100 ivan the terrible part one 1943 lowest rated 93 october 1928 birthday jan 23 1898 birthplace riga governorate of livonia russian empire

sergei eisenstein cinema and media studies oxford - Oct 26 2022

web sergei eisenstein sergei mikhailovich eizenshtein b riga latvia 1898 d moscow 1948 remains one of the most celebrated filmmakers and theorists in the history of cinema

sergei eisenstein imdb - Sep 05 2023

web sergei eisenstein director ivan the terrible part i the son of an affluent architect eisenstein attended the institute of civil engineering in petrograd as a young man with the fall of the tsar in 1917 he worked as an engineer for the red army