

BIO FINAL STUDY GUIDE

1. What does DNA stand for? _____
2. In 1928, British scientist _____, was trying to figure out how bacteria made people sick.
3. How did this scientist kill the bacteria? _____
4. What caused the mice to die in his experiments? _____
5. _____ is the process in which one strand of bacteria seemed to transfer into another strain.
6. Avery and other scientists discovered that the _____ stores and transmits the genetic information from one generation of an organism to the next.
7. American scientists, _____ and _____, studied a virus that infects bacteria called a _____. These virus consist of a _____ or _____ core and a _____ coat.
8. These two American scientists concluded that the genetic material of a bacteriophage was _____, and not protein.
9. Three things a gene needs to do is:
 - _____
 - _____
 - _____
10. DNA is made up of units called _____, which are composed of three things:
 - _____
 - _____
 - _____
11. There are four types of _____;
 - Purines:
 - _____
 - _____
 - Pyrimidines:
 - _____
 - _____
12. The DNA back bone is made of the _____ and _____ groups.
13. The four _____ of DNA were like the letters of the alphabet.
14. Chargaff's rule states the relationship between nucleotides. A purine pairs up with a pyrimidine. Adenine will always pair with _____. The purine Guanine always pairs with the pyrimidine _____.
15. In the 19850's, the British scientist _____ used X-ray diffraction to figure out some important clues about DNA structure, such as the fact that it was made of two strands and was in a twisted form.
16. Watson and Crick used clue's from the above scientist to make a model of DNA we call the _____, which consists of two strands twisted around each other.
17. The type of bond that holds nitrogenous bases together is called a _____.
18. This principle of nitrogenous bases pairing up with certain nitrogenous bases is called _____.
19. The process in which DNA copies itself before a cell divides is called _____, in which DNA separates its 2 strands, producing complementary strands following the rules of base-pairing. Each strand of the double helix serves as a template for new strands.
20. The enzyme that "unzips" the DNA strand is called _____.
21. RNA stands for _____.
22. In RNA the nitrogenous bases are the same as in DNA EXCEPT the pyrimidine thymine is replaced with _____, which is only found in RNA.
23. There are 3 types of RNA:
 - o _____; carry instructions to make amino acids
 - o _____; proteins combined with this RNA ribosomes
 - o _____; transfers amino acids to ribosomes to make protein
24. _____ are coded DNA instructions that control the production of proteins within the cell.
25.

DNA

transcription
→

mRNA

translation
→

protein

Biology 2nd Semester Final Exam Study Guide

United States Air Force Academy

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the United States Air Force Academy text.

Biology 2nd Semester Final Exam Study Guide:

The Biology Teacher's Survival Guide Michael F. Fleming, 2015-04-01 This unique resource is packed with novel and innovative ideas and activities you can put to use immediately to enliven and enrich your teaching of biology streamline your classroom management and free up your time to accomplish the many other tasks teachers constantly face For easy use materials are printed in a big 8 x 11 lay flat binding that opens flat for photo copying of evaluation forms and student activity sheets and are organized into five distinct sections 1 Innovative Classroom Techniques for the Teacher presents technique to help you stimulate active students participation in the learning process including an alternative to written exams ways to increase student responses to questions and discussion topics a student study clinic mini course extra credit projects a way to involve students in correcting their own tests and more 2 Success Directed Learning in the Classroom shows how you can easily make your students accountable for their own learning and eliminate your role of villain in the grading process 3 General Classroom Management provides solutions to a variety of management issues such as laboratory safety the student opposed to dissection student lateness to class and the chronic discipline problem as well as innovative ways to handle such topics as keeping current in subject matter content parent teacher conferences preventing burnout and more 4 An Inquiry Approach to Teaching details a very effective approach that allows the students to participate as real scientist in a classroom atmosphere of inquiry learn as opposed to lab manual cookbook learning 5 Sponge Activities gives you 100 reproducible activities you can use at the beginning of during or at the end of class periods These are presented in a variety of formats and cover a wide range of biology topics including the cell classification plants animals protists the microphore systems of the body anatomy physiology genetics and health And to help you quickly locate appropriate worksheets in Section 5 all 100 worksheets in the section are listed in alphabetical order in the Contents from Algae Worksheets 5 1 through Vitamins and Minerals Worksheets 5 100 For the beginning teacher new to the classroom situation as well as the more wxperienced teacher who may want a new lease on teaching Biology Teachers Survival Guide is designed ot bring fun enjoyment and profit to the teacher student rapport that is called teaching *Directory of Distance Learning Opportunities* Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation **Biology** Edward C. Gruber, 1963 *Curriculum Handbook with General Information Concerning ... for the*

United States Air Force Academy United States Air Force Academy, 1998 **National Guide to Educational Credit for Training Programs 2004-2005** Jo Ann Robinson, Troy Polite, Nancy Musick, 2004 For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the credit was designed L DBL Learning outcomes L DBL Teaching methods materials and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject areas s in which credit is applicable L L The introductory section includes ACE Transcript Service information For more than 25 years this guide has been the trusted source of information on thousands of educational courses offered by business labor unions schools training suppliers professional and voluntary associations and government agencies These courses provide academic credit to students for learning acquired at such organizations as AT T Citigroup Delta Air Lines General Motors University NETg and Walt Disney World Resort Each entry in the comprehensive INational Guide R provides L L DBL Course title L DBL Location of all sites where the course is offered L DBL Length in hours days or weeks L DBL Period during which the credit recommendation applies L DBL Purpose for which the credit was designed L DBL Learning outcomes L DBL Teaching methods materials and major subject areas covered L DBL College credit recommendations offered in four categories by level of degrees and expressed in semester hours and subject areas s in which credit is applicable L L The introductory section includes ACE Transcript Service information

Handbook of College Science Teaching Joel J. Mintzes, 2006 The Handbook offers models of teaching and learning that go beyond the typical lecture laboratory format and provides rationales for new practices in the college classroom It is ideal for graduate teaching assistants senior faculty and graduate coordinators and mid career professors in search of reinvigoration The Ethics of Special Education, Second Edition Kenneth R. Howe, Amy L. Boelé, Ofelia B.

Miramontes, 2018-06-08 Updated to include changes in the field this new edition addresses ethical issues that are most pressing to special education teachers and administrators Using a case based approach students are encouraged to reason and collaborate about due process the distribution of educational resources institutional unresponsiveness professional relationships conflicts among parents and teachers and confidentiality *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 Educational Research Document Summaries Educational Research Information Center (U.S.),1966
Research in Education ,1973-12

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Pelobatoidea The Pelobatoidea are a superfamily of frogs. They typically combine a toad-like body shape with a frog-like, pointed face Phylogenetically they stand ... **European spadefoot toad** The European spadefoot toads are a family of frogs, the Pelobatidae, with only one extant genus Pelobates, containing six species. They are native to Europe ... Pelobatidae They are collectively known as the "spadefoot toads" due to the presence of a keratinized "spade" on each hind foot which are used in burrowing. While all ... **European Spadefoot Toads (Family Pelobatidae)** The European spadefoot toads are a family of frogs, the Pelobatidae, with only one extant genus Pelobates, containing four species. ADW: Pelobatidae: INFORMATION Pelobatids are squat and toadlike, with soft skins and fossorial habits. This treatment places Megophryidae in a separate family, leaving but two or three ... **Spadefoot Toads (Pelobatidae)** Frogs in this family are often mistaken for toads (exemplified by the common name, "spadefoot toads"). They do not have the warty skin of true toads, however, ... **Natural History of the White-**

Inyo Range Spadefoot Toads (Family Pelobatidae). Great Basin Spadefoot Toad, *Spea* ... A related species in southeastern California, the Couch's Spadefoot Toad (*S. couchii*) ... Couch's spadefoot (*Scaphiopus couchi*) Couch's spadefoot (*Scaphiopus couchi*). Order: Salientia Family: Pelobatidae (spadefoots) Other common name: spadefoot toad. Spanish names: sapo con espuelas ... Spadefoot toad | burrowing, nocturnal, desert 3 days ago — All spadefoot toads are classified in the family Pelobatidae. Spadefoot toads have a broad, horny “spade” projecting from the inside of each Pelobatidae - European Spadefoot Toad Family - Apr 21, 2017 — The family Pelobatidae is the European Spadefoot toads but they aren't just found in Europe, they are also found in Asia and Northern Africa.