BIOLOGY - 2ND SEMESTER FINAL EXAM STUDY GUIDE - 2011

Chapter 12

- What do all organisms have in common?
- Identify a diagram of DNA, label the nitrogen bases, deoxyribose sugar, phosphate group, and nucleotides.
- What is a DNA nucleotide made of? What is an RNA nucleotide made of?
- 4. Where is the DNA in a cukaryotic 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.
- Using a DNA strand, make the complementary strand.
- 8. How is RNA different from DNA? How is it similar?
- 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?
- 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?
- What are adaptations? Give examples.
- What are vestigial structures? What do they indicate? Give examples.
- 7. What's a species?

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Edward C. Gruber

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