BIOLOGY – 2ND 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?

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