

Guided Reading Questions for Material Covered on Exam 2

You do not have to know all of the material in every chapter listed on the syllabus. To help you pick and choose what to focus on, I have selected the following questions as being most relevant to the material we will cover in class. As you study, try to answer these questions without looking at your book or your notes.

More than any other, this section skips around quite a bit in the book. This list of questions roughly maintains the order in which we will cover the material in lecture.

Chapter 7

Sec. 7.2

- Mastering Concepts #1

Make a concept map using the following terms: nucleotide, deoxyribose, phosphate, nitrogenous base, adenine, cytosine, guanine, thymine, DNA, nucleic acid, hydrogen bond, double helix

Sec. 7.3

- Mastering Concepts #1, 2, 3

Sec. 7.4

- Mastering Concepts #1, 2, 3, 4

Sec. 7.5

- Mastering Concepts #2, 3

Sec. 7.7

- Mastering Concepts #1, 2, 3, 4, 5

Sec. 7.9

- Mastering Concepts #1, 2, 3

Multiple Choice #1, 2, 4, 6, 8, 9

Write It Out #1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 21, 22, 24, 28

Pull It Together #1, 2 (except enhancers), 3, 4

Make a concept map using the following terms: gene, codon, mutation, nucleotide, anticodon, protein, mRNA, DNA, tRNA, amino acid, RNA polymerase, nucleus, ribosome

Chapter 15

Sec. 15.1

- Mastering Concepts #1, 2, 3, 5

Sec. 15.2

- Mastering Concepts # 1, 2

Sec. 15.4

- Mastering Concepts #4, 6

Multiple Choice #1, 2, 3, 4

Write It Out #1, 2, 3, 5, 6, 7, 8, 11, 12

Pull It Together #3

Make a concept map using the following terms: virus, host cell, genetic material, protein, ribosomes, envelope, ATP, amino acids, nucleotides, attachment, penetration, synthesis, assembly, release

Chapter 8

Sec. 8.1

- Mastering Concepts #1, 2

Sec. 8.2

- Mastering Concepts #1, 5

Sec. 8.3

- Mastering Concepts #1, 3

Sec. 8.4

- Mastering Concepts #1, 2, 3, 4, 5

Sec. 8.5

- Mastering Concepts #1, 3, 5, 6, 7

Sec. 8.7

- Mastering Concepts #1, 2, 3, 4

Multiple Choice #2, 4

Write It Out #1, 3, 4, 6, 9, 13, 18, 24, 28

Pull It Together #1, 2, 3, 4, 5, 6, 7

Chapter 16

Sec. 16.3

- Mastering Concepts #1

Multiple Choice #1, 7

Write It Out #7, 11

Pull It Together N/A

Make a concept map using the following terms: DNA, replication, DNA polymerase, nucleus, enzyme, nucleotides

Make a concept map using the following terms: chromatin, centromere, chromosome, chromatid, DNA, nucleus, replication, haploid, diploid, mitosis, cytokinesis, interphase, prophase, metaphase, anaphase, telophase, apoptosis, cancer, protein, binary fission

Chapter 9

Sec. 9.1

- Mastering Concepts #1, 2, 3

Sec. 9.2

- Mastering Concepts #1, 2, 3

Sec. 9.3

- Mastering Concepts #1, 2, 3, 4

Sec. 9.4

- Mastering Concepts #1, 2

Sec. 9.5

- Mastering Concepts #1, 2, 3, 4

Sec. 9.6

- Mastering Concepts #1, 2

Sec. 9.7

- Mastering Concepts #2

Multiple Choice #1, 2, 3, 4, 5, 6, 7, 9

Write It Out #1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12

Pull It Together #1, 2, 3, 4, 5

Make a concept map using the following terms: chromatin, centromere, chromosome, chromatid, homologous, nucleus, haploid, diploid, meiosis, nondisjunction, gametes, fertilization, zygote

Chapter 10

Sec. 10.1

- Mastering Concepts #1, 2

Sec. 10.2

- Mastering Concepts #2, 3

Sec. 10.3

- Mastering Concepts #2, 3, 4

Sec. 10.6

- Mastering Concepts #1

Sec. 10.7

- Mastering Concepts #1, 3, 4

Sec. 10.9

- Mastering Concepts #1, 2

Multiple Choice #1, 2, 3, 4, 8, 10, 11, 12

Write It Out #2, 3, 4, 7, 16, 17, 19, 20, 21, 22, 24, 28

Genetics problems #1, 2, 3, 6, 7, 8

Pull It Together #1, 2, 3, 4 (except pleiotropy and epistasis)

Make a concept map using the following terms: DNA, cell, gene, allele, phenotype, genotype, homozygous, heterozygous, dominant, recessive, parents, offspring, meiosis, gametes