

Extending Mendelian Genetics

Study Guide A**Answer Key****SECTION 1. CHROMOSOMES AND PHENOTYPE**

1. sex; autosomes
2. does not; can
3. Autosomal Recessive: *DD*, no disorder; *Dd*, carrier; *Dd*, carrier; *dd*, disorder
Autosomal Dominant: *DD*, disorder; *Dd*, disorder; *Dd*, disorder; *dd*, no disorder
4. sex chromosomes
5. *XX*, female; *XX*, female; *XY*, male; *XY*, male
6. either X or Y; only X
7. male
8. row 1: males; row 2: females
9. offspring
10. females; "turned off"

SECTION 2. COMPLEX PATTERNS OF INHERITANCE

1. b, d, f
2. a, e
3. more than
4. b
5. d
6. a
7. c
8. genes; phenotypes
9. expression
10. environment
11. temperature; nutrition / health care
12. incomplete dominance
13. codominance
14. polygenic traits

SECTION 3. GENE LINKAGE AND MAPPING

1. together
2. quickly; easy
3. most common; much less
4. chromosome; independently; cross-over
5. Mendel: b and c; Punnett and Bateson: b and c; Morgan: a, d, and f
6. closer; farther apart
7. meiosis
8. c
9. b
10. a and c
11. A–7–D–13–B–5–C

SECTION 4. HUMAN GENETICS AND PEDIGREES

1. b and d
2. c
3. autosomal
4. Males
5. genotypes
6. phenotype
7. d
8. X^dX^d
 X^dY
female carrier
must have $X^D X^d$, $X^D Y$; could have $X^D X^D$, $X^D X^d$, $X^D Y$, $X^d Y$
must have $X^D X^d$, $X^D Y$; could have $X^D X^d$, $X^d X^d$, $X^D Y$, $X^d Y$
must have $X^d X^d$, $X^D Y$; could have $X^D X^d$, $X^d Y$
must have $X^d X^d$, $X^D Y$; could have $X^d X^d$, $X^d Y$
9. karyotypes; genetic testing (genetic screening)
10. chromosomes
11. picture

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60 200 0 5 100 y r sin θ 200 sin 60 200 0 8660 173 21 alex s vector x r

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