

# Final Exam Review

Biology? That's like the study of the  
number 2 right?

# Which of the following is a heterozygote?

---

- A      **BB**
- B      **brown**
- C      **Hh**
- D      **hh**

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**This is the part of the cell where translation occurs.**

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- **A      nucleus**
- **B      endoplasmic  
reticulum**
- **C      vacuole**
- **D      ribosome**

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# A Dominant Trait does what to a recessive?

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- **A**      **masks it**
- **B**      **kung fu chops it**
- **C**      **nothing**
- **D**      **hides behind it**

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# Which of the following is in RNA but not DNA?

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- **A**      **Thymine**
- **B**      **Uracil**
- **C**      **Guanine**
- **D**      **Adenine**



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**This type of RNA has anticodons.**

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- **A**      **rRNA**
- **B**      **pRNA**
- **C**      **mRNA**
- **D**      **tRNA**

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**Given the DNA template strand GCTATT  
what would the mRNA strand look like?**

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- **A      CGATAA**
- **B      GCUAAU**
- **C      CGAUAA**
- **D      AUCGCC**

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When forensic scientists look at bands of DNA to ID parents or criminals they are looking at a \_\_\_\_\_.

- **A DNA fingerprint**
- **B slides**
- **C DNA polymerase**
- **D barcodes**

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# Which of the following is a sex-linked trait?

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- **A** eye color
- **B** male-pattern baldness
- **C** Down's Syndrome
- **D** Polydactyly



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**If a person has the gene for a genetic disorder but does not express it they are a**

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- **A      Dead**
- **B      Carrier**
- **C      Holder**
- **D      Lame Duck**

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**This dude made the first antibiotic out of some mold growing in his lab.**

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- **A      Mary Riley**
- **B      Fleming**
- **C      Darwin**
- **D      Linnaeus**

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# Which of the following has no vaccine?

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- **A**      **small pox**
- **B**      **chicken pox**
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# Which of the following is a homozygote?

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**A male patient has the sex-linked disorder Hemophilia, what's his genotype?**

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■ **A**       **$X^hX^h$**

■ **B**      **hh**

■ **C**      **Hh**

■ **D**       **$X^hY$**

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When two members of the same species can no longer interbreed with each other they are \_\_\_\_\_.

- **A**      **geographically isolated**
- **B**      **unattractive**
- **C**      **dead**
- **D**      **sexually isolated**

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# The bodies first line of defense is?

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- **A**      **white blood cells**
- **B**      **ninjitsu**
- **C**      **the skin**
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# Which list portrays only kingdoms?

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- **A**      **animal, vegetable,  
mineral**
- **B**      **plantae, animalia,  
algae**
- **C**      **mammals, birds,  
reptiles, and amphibians**
- **D**      **archaebacteria,  
Eubacteria, protista, animalia,  
fungi, plantae**

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**What is the probability that two heterozygotes will have a child that shows the recessive trait?**

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- A      100% or 4 out of 4**
- B      75% or 3 out of 4**
- C      50% or 2 out of 4**
- D      25% or 1 out of 4**

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**The last stage of a viral infection is.**

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- **B      stage 3**
- **C      death**
- **D      lysis or budding**

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The evolution guy was \_\_\_\_\_.

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- **A Mendel**
- **B Darwin**
- **C Linnaeus**
- **D Flemming**



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# When advise parents on whether or not to have kids based on a pedigree

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- **A**      **gene therapy**
- **B**      **eugenics**
- **C**      **genetic counseling**
- **D**      **Franklin Delano  
Roosevelt**

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**Macrophages can do all of the following except?**

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- **A**      **Kuk Sool Won**
- **B**      **eat infected cells**
- **C**      **classify themselves  
as a white blood cell**
- **D**      **activate T and B cells**

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# Organisms are classified in which language?

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- **A Swahili**
- **B English**
- **C German**
- **D Latin**

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**Two organisms that can interbreed and create viable offspring are \_\_\_\_\_.**

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- A      married**
- B      male and female**
- C      the same species**
- D      ecological races**



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# What is needed for natural selection to occur?

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- **B**      **competition**
- **C**      **limited resources**
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**Dolphins and sharks look similar, but are not closely related this is an example of**

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- **A homologous structures**
- **B convergent evolution**
- **C co-evolution**
- **D vestigial structures**

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When ecological races of the same species accumulate many differences and become separate species they are said to \_\_\_\_\_.

- **A**      **diverge**
- **B**      **converge**
- **C**      **explode**
- **D**      **darwinize**

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**An advantageous heritable characteristic is a(n) \_\_\_\_\_.**

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- A      natural selection**
- B      gene**
- C      adaptation**
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# Organisms that eat both producers and consumers are?

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- **A**      **sick**
- **B**      **carnivores**
- **C**      **herbivores**
- **D**      **omnivores**

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**Cross 2 heterozygotes and you get a phenotype ratio of**

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■ **A**      **1:2:1**

■ **B**      **25%**

■ **C**      **3:1**

■ **D**      **75%**

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# The probability of getting a recessive disorder from a cross between AA and Aa

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**Two organisms that eat the same food are considered to be in what?**

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- **A competition**
- **B trouble**
- **C evolution**
- **D darwinism**

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**The gradual replacement of plant species in an ecosystem is.**

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- A      boring**
- B      evolution**
- C      succession**
- D      leveling**

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**YOU HAVE A TAIL! Or at least had one shortly after conception, this is a what?**

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- **B**      **homologous structure**
- **C**      **disturbing**
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**Bones, tracks, imprints, preserved poo are all examples of what?**

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- **A fossils**
- **B lunch**
- **C carbon dating**
- **D evolution**



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**The theory of evolutionary rate that is slow and gradual is?**

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- **B punctuated equilibrium**
- **C gradualism**
- **D slowism**

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**Where an organism lives, what it eats, when it mates, what climate is like are all part of its what?**

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- **A      habitat**
- **B      ecosystem**
- **C      niche**
- **D      community**

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**We live in a \_\_\_\_\_ biome.**

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- A      human**
- B      carnivorous forest**
- C      deciduous forest**
- D      temperate grassland**

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**Barnacles and whales are an example of this type of relationship.**

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- **B      commensalism**
- **C      mutualism**
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