

## Final Exam Review

Which of the following is a heterozygote?

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

This is the part of the cell where translation occurs.

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

A Dominant Trait does what to a recessive?

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

Which of the following is in RNA but not DNA?

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

This type of RNA has anticodons

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

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

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

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

Which of the following is a sex-linked trait?

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

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

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

Genetic Disorders are caused by a defective what?

- A rRNA
- B carbohydrates
- C tRNA
- D protein

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

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

Which of the following has no vaccine?

- A small pox
- B chicken pox
- C The common cold
- D measles

Which of the following is a homozygote?

- A b
- B brown
- C Hh
- D hh

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

- A XhXh
- B hh
- C Hh
- D XhY

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

The body's first line of defense is?

- A white blood cells
- B ninjitsu
- C the skin
- D antibiotics

Which list portrays only kingdoms?

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

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

- 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

The last stage of a viral infection is.

- A DNA replication
- B stage 3
- C death
- D lysis or budding

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

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

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

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

Macrophages can do all of the following except?

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

Organisms are classified in which language?

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

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

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

What is needed for natural selection to occur?

- A variation
- B competition
- C limited resources
- D all of the above

Dolphins and sharks look similar, but are not closely related this is an example of \_\_\_\_\_.

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

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

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

- A natural selection
- B gene
- C adaptation
- D selector

Organisms that eat both producers and consumers are?

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

\_\_\_\_\_ is the percentage of energy available to the next trophic level.

- A 50%
- B 10%
- C 25%
- D 0%

Cross 2 heterozygotes and you get a phenotype ratio of

- A 1:2:1
- B 25%
- C 3:1
- D 75%

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

- A 2:2
- B 50%
- C 25%
- D 0%

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

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

The gradual replacement of plant species in an ecosystem is.

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

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

- A analogous structure
- B homologous structure
- C disturbing
- D vestigial structure

Bones, tracks, imprints, preserved poo are all examples of what?

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

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

- A Darwinism
- B punctuated equilibrium
- C gradualism
- D slowism

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

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

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

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

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

- A parasitism
- B commensalism
- C mutualism
- D bipartisan

The amount of energy available to the next is

- A all of it
- B 10%
- C 50%
- D three quarters

An organism that eats primary consumers is a

- A omnivore
- B producer
- C carnivore
- D herbivore

Which of the following does not cycle in an ecosystem?

- A carbon
- B energy
- C nitrogen
- D water

This final exam will

- A crush my spirit just like Mr. C planned
- B be worth 20% of my 2<sup>nd</sup> semester
- C not be taken by me because I have an 74.5% and will be happy with a 59.5% that rounds to a 60%
- D be destroyed by me