Week 6 Post-Lecture Quiz - 2022   ✓ 10/10 points

Week 6 Post Lecture Quiz

Question 1   ✓ 1/1 point

If two species NOT occupying the same range evolve reproductive isolation, what kind of speciation is said to have taken place?

A	genetic drift

B	founder effect

	allopatric
	Your answer

D	sympatric

Question 2   ✓ 1/1 point

When a male donkey mates with a female horse, the hybrid offspring is an infertile mule. What type of reproductive barrier is this?

A	prezygotic isolation

	postzygotic isolation
	Your answer

C	premating

D	hybrid inviability

Question 3   ✓ 1/1 point

Which of these statements denotes a species?

A	an evolutionary endpoint

	a fundamental unit of biology
	Your answer

C	a morphologically distinct unit

D	a genetically distinct unit

✓ 1/1 point

What is the only evolutionary process that leads to adaptive change?

A	mutation

B	migration

	natural selection
	Your answer

D	genetic drift

Question 5 ✓ 1/1 point

Which statement best represents the meaning of the term evolution?

A	changes in species toward greater complexity over time

	changes in gene frequencies in a population over time
	Your answer

C	the strongest individuals survive and produce the most offspring

D	changes in an individual over time in response to natural selection

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Question 6 ✓ 1/1 point

In the biological species concept, which of the following should two members of the same species be able to do?

A	produce eggs or sperm

	produce fertile offspring _Your answer_

C	produce gametes

D	Be able to mate

Question 7   ✓ 1/1 point

Which one of these terms applies to a species that forms while occupying the same geographic range as another species?

A	genetic drift

B	founder effect

C	allopatric

	sympatric _Your answer_

Question 8   ✓ 1/1 point

Why is extinction considered a fundamental component of the process of evolution?

	Extinction generates opportunities for others. _Your answer_

B	Extinction is inevitable.

C	Extinctions limit the number of species that evolve.

D	Extinctions are preserved evidence of prehistoric organisms.

Which of these statements tells us why it is so challenging to define a species?

	Evolution is an ongoing process.	
		Your answer

B	There are too many species.

C	Common names of species are confusing.

D	Biologists cannot make up their minds.

The antennae of male moths can detect sex pheromones released by only females in his species. What kind of reproductive barrier is this?

	Prezygotic	
		Your answer

B	Postzygotic

C	Mechanical isolation

D	Temporal isolation

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