My sites / 21F-EEBIOL184-1 / Assessment/Exam on Unit 2 - Modern Synthesis (October 13) / Exam 2, Part 1 - Multiple Choice

Fall 2021 - Week 6

Fall 2021 - EE BIOL184-1 - SEARS
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Started on Wednesday, 13 October 2021, 3:51 PM PDT

State Finished

Completed on Wednesday, 13 October 2021, 4:00 PM PDT

Time taken 9 mins 43 secs

**Grade 6.25** out of 6.25 (100%)

## Question 1

Correct

1.25 points out of 1.25

Which of the following statements is most supported by the existence of vestigial traits (e.g., pelves of whales) (please pick the best answer)? For the purposes of this class, a vestigial trait is are defined as **an anatomical feature that no longer seems to have a purpose in the current form of an organism of the given species**. Often, these vestigial structures were organs that performed some important functions in the organism at one point in the past.

- a. Evolution can occur rapidly when selection pressures are strong
- b. Not every trait or feature is an adaptation
- oc. Natural selection is the only mechanism for evolutionary change
- d. Evolution works toward an eventual improvement

The correct answer is:

Not every trait or feature is an adaptation

## Question 2

Correct

1.25 points out of 1.25

Different animal groups have repeatedly converged on similar forms, such as the marsupial saber-toothed cat and the placental saber-toothed cat. Which of the following statements is most supported by the repeated evolutionary convergence of animals on similar forms (please pick the best answer)?

- a. Evolution is a process that occurs within populations over generations
- b. Drift is an important evolutionary process
- c. Evolution by natural selection is not a random process
- d. Each evolutionary change has to improve fitness

The correct answer is:

Evolution by natural selection is not a random process

Question 3 Correct						
1.25 points out of 1.25						
1.23 points out of 1.23						
Which of the following concepts was central to the "Modern Synthesis" of the early 20 <sup>th</sup> -century?						
<ul><li>a. Nature versus nurture</li><li>b. Phylogeny recapitulates ontogeny</li></ul>						
			C. Epigenetic change			
Epigenetic change						
d. Mendelian inheritance	~					
G. Wendenan innertance						
The correct answer is:						
Mendelian inheritance						
	Question 4					
Question 4						
Question 4 Correct						
Correct						
Correct						
Correct 1.25 points out of 1.25  Which of the following scientists coined the term "Modern Synthesis"?						
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Correct 1.25 points out of 1.25  Which of the following scientists coined the term "Modern Synthesis"?  a. Huxley b. De Beer c. Mayr d. Waddington	~					

'3/21, 4:04 PM		Exam 2, Part 1 - Multiple Choice: Attempt review	
	Question <b>5</b>		
	Correct		
	1.25 points out of 1.25		
	Waddington's critical experiment in which he		
	,		
	During the online lecture on the Modern Synthesis, a critica	al experiment by Waddington was discussed. In this experiment, Waddington	
	exposed Drosophila to ether. Which of the following was a		
	a. When embryonic flies were exposed to ether, they	developed two heads	
	<ul> <li>b. Fly development proved insensitive (i.e., it could no</li> </ul>	ot be altered) to environmental factors	
	oc. After 20 generations of exposure to ether, flies wou	uld form a mutant phenotype without being exposed to any ether	~
	Od. The "grandchildren" of flies exposed to ether show	red a marked preference for the ether smell	
	The correct answer is:		
	After 20 generations of exposure to ether, flies would form	a mutant phenotype without being exposed to any ether	

**◄** Online Activity - ...

Jump to...

Exam 2, Part 2 - Essay ... ►