



**STUDYDADDY**

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1) Which of the following would likely occurred based on the following Matrix. Be sure to consider where the arrows are pointing, not just their directions!

		<b>Opponent</b>	
		<b>A</b>	<b>B</b>
<b>Focal Animal</b>	<b>B</b>	↓	↓
	<b>A</b>		

- a. 1 pure ESS, only behavior B would evolve
- b. No ESS, Alternative Strategies all work
- c. 1 pure ESS, only behavior A would evolve
- d. 2 pure ESS, Mixed Strategy

2) Match the following terms describing behavioral strategies with their best definition

a) A strategy that is performed only when environmental components are ideal or when that strategy will likely give the best result in the given conditions. Often the decision to perform this strategy is based on an environmental threshold within the individual that is genetically driven.

Choose: Pure ESS/ Evolutionarily Stable Strategy/ Alternative Strategy/ Mixed ESS/ Conditional Strategy

b) When there is only one strategy in a system that generates an optimum outcome for those using it. All other strategies that are used in this system will do more poorly, provided the majority of players follow this singular strategy.

Choose: Pure ESS/ Evolutionarily Stable Strategy/ Alternative Strategy/ Mixed ESS/ Conditional Strategy

c) A strategy that is consistently optimal for its players; All other strategies that are used in this system will do more poorly, provided the majority of players follow this consistently optimal strategy.

Choose: Pure ESS/ Evolutionarily Stable Strategy/ Alternative Strategy/ Mixed ESS/ Conditional Strategy

d) A strategy that, gives the performer, a good outcome or an outcome that is comparable to all other players who may be using a different strategy.

Choose: Pure ESS/ Evolutionarily Stable Strategy/ Alternative Strategy/ Mixed ESS/ Conditional Strategy

e) When there are two strategies in a system (in a 2x2 player matrix) that generate an optimum outcome for those using it. All other strategies that are used in this system will do more poorly, provided the majority of players follow one of these two strategies.

Choose: Pure ESS/ Evolutionarily Stable Strategy/ Alternative Strategy/ Mixed ESS/ Conditional Strategy

3) Which of the following would likely occurred based on the following Matrix. Be sure to consider where the arrows are pointing, not just their directions!

		<i>Opponent</i>	
		<i>A</i>	<i>B</i>
<i>Focal Animal</i>	<i>B</i>		
	<i>A</i>	↑	↓

- a. Alternative Strategies, All 4 strategies are equally likely
- b. Pure ESS, Strategy B would evolve
- c. 2 Pure ESS, mixed strategy
- d. Pure ESS, Strategy A would evolve
- e. No ESS

4) Which of the following would likely occurred based on the following Matrix. Be sure to consider where the arrows are pointing, not just their directions!

		<i>Opponent</i>	
		<i>A</i>	<i>B</i>
<i>Focal Animal</i>	<i>B</i>		
	<i>A</i>	↓	↑

- a. 2 pure ESS, mixed strategy
- b. Pure ESS; strategy A would evolve
- c. Pure ESS, strategy B would evolve
- d. Alternative strategies, all four strategies equally likely
- e. No ESS



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