Quiz 7

Chapters 13 and 1\textsuperscript{st} part of 14
Question 1

Which of the following statements is true?

a. All pathogens are parasites.
b. All parasites are pathogens.
c. All symbionts are parasites.
d. Both a and b
e. Both b and c
Question 2

Which of the following is an advantage that endoparasites have over ectoparasites?

a. Dispersal ability
b. Ease of feeding
c. Less susceptibility to the host’s immune system
d. Both a and b
e. Both b and c
Question 3

Which of the following organisms *cannot* mount immune responses to parasites?

a. Mammals
b. Birds
c. Insects
d. Plants
e. All of the above can mount immune responses.
Question 4

In the years since *Myxoma* was introduced to Australia, the virus _______ and rabbits _______ to the virus.

a. has evolved to become more lethal; have evolved resistance
b. has evolved to become more lethal; have not changed in their level of resistance
c. has not changed in its lethality; have evolved resistance
d. has evolved to become less lethal; have evolved resistance
e. has evolved to become less lethal; have not changed in their level of resistance
Question 5

In the context of host–parasite dynamics, a latent period is

a. the time delay that parasites impose on population cycles.
b. the time between infection in a host and its death or recovery.
c. the time between infection in a host and its own capacity to transmit the disease.
d. the time between infection in a host and the point at which it becomes symptomatic.
e. the life span of a parasite.
Question 6

Which of the following is most likely to prevent or stop an arms race between host and parasite?

a. A trade-off between a host’s survival in the absence of parasitism and its reproductive success in the absence of parasitism

b. A trade-off between a host’s survival when parasitized and its reproductive success in the absence of parasitism

c. Rare genotypes of the host providing an advantage in resisting parasitism

d. Both a and b

e. Both b and c
Question 7

Lions running on grass do not benefit from this interaction and are not harmed, but their activity helps the grass grow. This is an example of

a. mutualism.

b. endosymbiosis.

c. commensalism.

d. symbiosis.

e. ammensalsism.
Question 8

Which of the following statements about mycorrhizae is true?

a. All plants have mycorrhizae.

b. Mycorrhizae are symbiotic associations between plant roots and fungi.

c. Mycorrhizae typically are commensalisms, not true mutualisms, because only the plant benefits.

d. Both a and b

e. Both a and c
Question 9

The studies by Keon with *Amoeba proteus* and a bacterium illustrated which of the following processes?

a. A mutualism evolving into a commensalism
b. A host–parasite relationship evolving into a mutualism
c. Coevolution
d. Both a and c
e. Both b and c
Question 10

Which of the following is an example of a facultative mutualism?

a. The fig–fig wasp mutualism
b. Desert ironwood serving as a nurse plant to many other species
c. The leaf-cutter ant–fungus mutualism
d. Both a and b
e. None of the above