# Environmental Health and Zoonosis

Public Health · Practice Test · 20 Questions

**1. Which tick species is the primary vector for Borrelia burgdorferi in the northeastern United States?**

A) Ixodes scapularis
B) Dermacentor variabilis
C) Amblyomma americanum
D) Rhipicephalus sanguineus

**2. What is the primary reservoir host for the Hendra virus in Australia?**

A) Red Kangaroo
B) Pteropus bats
C) Common Brushtail Possum
D) Dingo

**3. Which environmental condition is most strongly associated with the increased prevalence of Schistosoma mansoni?**

A) High soil salinity
B) Low humidity levels
C) Slow-moving freshwater
D) High ultraviolet exposure

**4. What is the primary mode of transmission for the Hantavirus Pulmonary Syndrome (HPS) in the Americas?**

A) Bite of an infected flea
B) Inhalation of aerosolized rodent excreta
C) Direct contact with avian saliva
D) Consumption of contaminated groundwater

**5. Which organism acts as the intermediate host for the liver fluke Fasciola hepatica?**

A) Freshwater snails
B) Mosquito larvae
C) Soil nematodes
D) Earthworms

**6. The persistence of Yersinia pestis in the environment is most commonly associated with which rodent family?**

A) Sciuridae
B) Muridae
C) Cricetidae
D) Geomyidae

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**7. Which environmental toxin, often found in contaminated seafood, is a neurotoxic methylmercury compound that biomagnifies up the food chain?**

A) Methylmercury
B) Polychlorinated biphenyls
C) Dioxins
D) Organophosphates

**8. Which species of mosquito is the primary vector for the Zika virus in tropical and subtropical regions?**

A) Aedes aegypti
B) Culex pipiens
C) Anopheles gambiae
D) Culiseta inornata

**9. What ecological phenomenon is defined as the 'dilution effect' in the context of disease ecology?**

A) Decreased pathogen transmission in areas with high host biodiversity
B) Increased pathogen mutation rates in monocultures
C) Reduction of vector lifespan due to temperature
D) Expansion of host range due to deforestation

**10. Which pathogenic bacterium, often transmitted through contact with contaminated soil or water, causes Leptospirosis?**

A) Leptospira interrogans
B) Bacillus anthracis
C) Clostridium tetani
D) Burkholderia pseudomallei

**11. What is the primary ecological driver for the emergence of Nipah virus outbreaks?**

A) Expansion of intensive pig farming into bat habitats
B) Increased global shipping of ornamental plants
C) Overfishing of coastal reefs
D) Spread of invasive fungal species

**12. Which infectious agent is transmitted to humans primarily through the bite of a Triatomine bug?**

A) Trypanosoma cruzi
B) Plasmodium falciparum
C) Leishmania donovani
D) Babesia microti

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**13. In environmental health, what does the term 'biomagnification' describe?**

A) The concentration of a substance increasing as it moves up the food chain
B) The rapid growth of invasive species in degraded habitats
C) The breakdown of pollutants by microbial action
D) The increase in genetic diversity within a population

**14. Which pathogen causes Lyme disease-like illness and is transmitted by the Lone Star tick (Amblyomma americanum)?**

A) Borrelia lonestari
B) Rickettsia rickettsii
C) Ehrlichia chaffeensis
D) Francisella tularensis

**15. Which environmental pollutant is specifically known to cause 'Minamata disease' due to its impact on the central nervous system?**

A) Mercury
B) Lead
C) Arsenic
D) Cadmium

**16. What is the primary natural reservoir for the Ebola virus?**

A) Pteropodid fruit bats
B) Non-human primates
C) Wild swine
D) Rodent populations

**17. Which type of radiation is classified as a Class 1 carcinogen by the IARC and is a natural environmental hazard found in soil and rocks?**

A) Radon gas
B) Microwave radiation
C) Visible light
D) Radio waves

**18. The spread of West Nile Virus in North America is most significantly linked to which ecological vector?**

A) Culex mosquitoes
B) Ixodes ticks
C) Tsetse flies
D) Phlebotomine sandflies

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**19. What causes the zoonotic disease known as Q fever?**

A) Coxiella burnetii
B) Chlamydia trachomatis
C) Brucella abortus
D) Salmonella enterica

**20. Which heavy metal is a major public health concern due to its presence in contaminated groundwater, specifically in the Ganges Delta?**

A) Arsenic
B) Mercury
C) Lead
D) Cadmium

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