

Pioneers of Aquaculture

Aquaculture History · Answer Key · 25 Questions

1. Which ancient civilization is credited with the earliest recorded practice of fish farming around 3500 BC?

- A) Ancient Egypt
- B) Ancient China**
- C) Ancient Greece
- D) Ancient Rome

2. In 1761, who was the first person to successfully document the artificial fertilization of trout eggs?

- A) Stephen Ludwig Jacobi**
- B) Louis Pasteur
- C) Carl Linnaeus
- D) Charles Darwin

3. What century saw the first commercial production of salmon in sea cages in Norway, a practice that revolutionized the industry?

- A) 18th century
- B) 19th century
- C) 20th century**
- D) 17th century

4. Which invention in the mid-20th century allowed for the aeration of water, making high-density aquaculture possible?

- A) Solar panel
- B) Electric paddlewheel aerator**
- C) Submarine pump
- D) Steam turbine

5. The first successful artificial spawning of Atlantic salmon in North America was recorded at which location in 1853?

- A) Newcastle, Ontario**
- B) Portland, Maine
- C) Halifax, Nova Scotia
- D) Anchorage, Alaska

6. What is considered the first aquatic species to be domesticated for food by humans?

A) Common Carp

B) Atlantic Salmon

C) Shrimp

D) Tilapia

7. The first large-scale commercial hatchery for Pacific oysters was established in which country during the 1960s?

A) Japan

B) United States

C) Australia

D) Chile

8. Who is often referred to as the 'Father of Aquaculture' for writing the world's first book on fish culture, 'The Classic of Fish Culture', in 475 BC?

A) Fan Li

B) Confucius

C) Laozi

D) Sun Tzu

9. Which development in the 1970s allowed fish farmers to monitor water quality in real-time?

A) Digital sensors

B) Mechanical floats

C) Color-coded litmus paper

D) Mercury thermometers

10. The first integrated 'rice-fish' farming system, which combines crop and fish production, originated in which country?

A) China

B) Vietnam

C) Thailand

D) India

11. What specific innovation in the 1980s significantly improved survival rates in shrimp aquaculture?

A) Pelleted feed

B) Concrete tanks

C) Glass ponds

D) Wooden nets

12. Which scientist is credited with pioneering the use of hormones to induce spawning in fish during the 1930s?

A) Bernardo Houssay

B) B.A. Houssay and colleagues

C) Gregor Mendel

D) Rachel Carson

13. In which decade was the first successful 'closed-cycle' farming of Bluefin Tuna achieved, preventing reliance on wild-caught juveniles?

A) 1980s

B) 1990s

C) 2000s

D) 2010s

14. What is the primary function of the invention known as the 'floating cage' which revolutionized salmon farming in the 1960s?

A) Allowing natural water flow

B) Keeping birds away

C) Heating the water

D) Filtering plastic waste

15. The first commercial production of tilapia outside of its native Africa began in which decade?

A) 1940s

B) 1950s

C) 1960s

D) 1970s

16. Which organization published the first global 'Code of Conduct for Responsible Fisheries' in 1995?

A) FAO

B) WHO

C) UNESCO

D) NASA

17. What was the first major species to be farmed commercially in Australia during the 1980s?

A) Southern Bluefin Tuna

B) Barramundi

C) Rainbow Trout

D) Sydney Rock Oyster

18. The first controlled breeding of catfish in the United States occurred in which state during the 1950s?

A) Arkansas

B) Florida

C) Louisiana

D) Texas

19. Which material replaced traditional bamboo for constructing fish enclosures in the 20th century?

A) Nylon netting

B) Cast iron

C) Fiberglass

D) Recycled plastic

20. In what year was the first successful cloning of a fish species (the carp) reported by Chinese scientists?

A) 1963

B) 1975

C) 1988

D) 1996

21. The 'Recirculating Aquaculture System' (RAS) was first widely adopted in which industry during the 1970s?

A) Trout farming

B) Shrimp farming

C) Kelp farming

D) Crab farming

22. Which breakthrough in the 1990s allowed for the detection of pathogens in aquaculture ponds?

A) PCR testing

B) Microscopy

C) Visual inspection

D) Radio signals

23. What was the first fish species to have its full genome sequenced in 2002 to aid aquaculture research?

A) Fugu (Pufferfish)

B) Zebrafish

C) Common Carp

D) Atlantic Salmon

24. The first offshore cage systems, placed in open ocean environments, were pioneered in which country in the 1990s?

A) Norway

B) Japan

C) New Zealand

D) Canada

25. Which aquatic plant was the first to be cultivated for large-scale human consumption?

A) Nori (Seaweed)

B) Kelp

C) Water Spinach

D) Lotus