

1. Why is water conservation harder in wealthy countries?
 - a. Water consumption indicates a belief in the central government.
 - b. Water consumption is a leading indicator of social integration.
 - c. Water consumption is associated with high status.
 - d. Water consumption is required for a successful family life.
 - e. Water consumption is required for certain religious practices.
2. Where is MOST of Earth's freshwater?
 - a. cave springs
 - b. polar ice caps
 - c. mountain springs
 - d. deep underground lakes
 - e. freshwater rivers
3. Lawn-watering would MOST likely be restricted in
 - a. Massachusetts
 - b. Oregon
 - c. Minnesota
 - d. Colorado
 - e. Arizona
4. In the 1960s, Golda Meir warned Egypt to NOT
 - a. dump brine into the ocean
 - b. divert the Jordan River
 - c. build dams on the Nile River
 - d. export water to Iran
 - e. trade water resources with Bedouin tribes
5. Which country did Israel face in the Six-Day War?
 - a. Iraq
 - b. Libya
 - c. Iran
 - d. Syria
 - e. Kuwait
6. How has Israel attempted to curb water use?
 - a. rationing water for settlements far from Jerusalem
 - b. requiring all households to install water-efficient appliances
 - c. decreasing subsidies for wasteful agricultural practices
 - d. incentivizing farmers to raise livestock requiring minimal water
 - e. banning private efforts to build agricultural infrastructure
7. The film in reverse-osmosis filtration uses
 - a. hypochlorous acid
 - b. chlorine dioxide
 - c. trimesoyl chloride
 - d. hydrogen chloride
 - e. sodium chloride
8. What is the ratio of brine to potable water produced during the reverse-osmosis filtration process?
 - a. 4:1
 - b. 4:2
 - c. 3:2
 - d. 5:3
 - e. 3:1
9. In reverse-osmosis filtration, pressurized diffusers offer a solution for
 - a. dissipating brine over a large area
 - b. maintaining the structural integrity of the plant
 - c. removing salt from sea water
 - d. lowering the sodium content of brine
 - e. keeping water temperature low
10. What effect does brine produced from reverse-osmosis filtration have on the ocean?
 - a. It causes algae blooms.
 - b. It decreases the amount of dissolved oxygen.
 - c. It increases the pH.
 - d. It increases the density of water.
 - e. It lowers the sodium content.
11. Desal plants are BEST situated in areas benefiting from
 - a. low rainfall amounts
 - b. high ocean temperatures
 - c. graywater availability
 - d. fast ocean water currents
 - e. bivalve-dominated ecosystems
12. How did the Soviets build a canal in a 1971 experimental process demonstration?
 - a. They blew up a mountainside with dynamite.
 - b. They dug the canal with heavy machinery.
 - c. They conscripted thousands of workers to dig the canal.
 - d. They used towboats to move large mountain chunks.
 - e. They detonated a series of nuclear fusion bombs.

13. Which river was the focus of a Soviet plan to redirect water to Kazakhstan and Uzbekistan?
- Ussuri
 - Lena
 - Volva
 - Oka
 - Kama
14. "Project Chariot" attempted to construct a(n)
- underground pipe system
 - drainage canal
 - aquifer transport system
 - above-ground aqueduct
 - artificial harbor
15. Who played an important role in promoting the viability of iceberg towing?
- Golda Meier
 - Robert Koch
 - John Isaacs
 - Muhammad Ali
 - Xi Jinping
16. What is the PRIMARY purpose of the South-North Water Transfer Project?
- to access water in an aquifer
 - to drain marshlands via canals
 - to use water to power a hydroelectric dam
 - to move water from a river via canals
 - to reroute a river to a desert
17. Metal hybrids could play a key role in
- removing sodium from brine
 - improving reverse-osmosis filtration
 - manufacturing water in a laboratory
 - stopping invasive species in inland lakes
 - reducing acidic emissions
18. Which region could benefit from fog harvesting?
- east coast of Asia
 - west coast of South America
 - north coast of Africa
 - northern coast of Europe
 - northern coast of Australia
19. Which idea supports the possibility of mining water from heavenly bodies?
- Water is found on large gas giants.
 - Water can be harvested from dying stars.
 - Water arrived on Earth because of collisions with these bodies.
 - Water is abundant in space.
 - Water can withstand environments with no gravity.
20. Which of the following factors MOST contributes to the current variability of the Rio Grande River?
- sulfate emissions
 - hydroelectric dams
 - global climate change
 - invasive species breeding
 - wasteful farming practices
21. Mexico and the United States signed Minute 323 to
- enforce water rights
 - place withdrawal limits on a river
 - restore the flow of a river
 - negotiate aquifer water rights
 - reduce agricultural emissions
22. Which dam is on the Colorado River?
- Lawrence Dam
 - Hoover Dam
 - Glen Canyon Dam
 - Optima Dam
 - Folsom Dam
23. In which region does the Nu/Thanlwin/Salween River originate?
- Tibet
 - Gansu
 - Shanxi
 - Guangxi
 - Sichuan
24. Upstream dams on the Nu/Thanlwin/Salween River could
- lead to widespread flooding in Myanmar
 - force the large-scale migration of Chinese farmers.
 - endanger local water dolphins
 - cause soil salinization in all impacted countries
 - cause saltwater to infiltrate the delta
25. How many people depend on the fish found in Lake Victoria?
- 45 million
 - 50 million
 - 30 million
 - 35 million
 - 40 million

26. Why are water hyacinths blooming in Lake Victoria?
- The Nile Perch is becoming the dominant lake species.
 - The nitrate concentration of the lake is increasing.
 - The local plant has placed brine into the lake.
 - Industrialists have diverted lake water for the textile mills.
 - Humans are dumping untreated water into the river.
27. Where is the “Great Manmade River Project” located?
- Mali
 - Chad
 - Egypt
 - Sudan
 - Libya
28. MOST of the water coming from “Great Manmade River Project” is used for
- urban uses
 - textile manufacturing
 - steelwork facilities
 - desert irrigation
 - power generation
29. The “tragedy of the commons” assumes humans will
- damage a shared resource
 - fail to collaborate on political treaties
 - conduct diligence on commercial transactions
 - engage in illegal practices
 - develop despotic regimes
30. Which aquifer is under Niger?
- Ganges-Brahmaputra
 - Nubian Sandstone
 - Indus Basin
 - Iullemeden
 - Guarani
31. Why have operations recently been disrupted at the “Great Manmade River Project”?
- Farmers have staged strikes at the main facility.
 - Underground pressure is causing the pipes to burst.
 - Terrorists have dismantled the pipes.
 - The temperature is too high for stable operations.
 - The lower levels of the facility are submerged.
32. Some hydrologists predict the Nubian Aquifer will run out of water in
- 40 years
 - 100 years
 - 60 years
 - 80 years
 - 20 years
33. Which aquifer could be a potential global resource?
- Guarani
 - Iullemeden
 - Nubian Sandstone
 - Indus Basin
 - Ganges-Brahmaputra
34. One of the earliest projects of the Israeli state focused on
- building a hydroelectric dam
 - rerouting the Jordan River
 - researching reverse-osmosis filtration
 - establishing settled farms
 - moving water out of a local aquifer
35. What approximate percentage of Earth’s water is freshwater?
- 3.0%
 - 2.5%
 - 1.0%
 - 2.0%
 - 1.5%
36. In the 1994 treaty between Israel and Jordan, Israel promised to
- send water to Syria
 - slow down soil salinization rates
 - cooperate on water projects
 - stop construction of hydroelectric dams
 - ban intensive agriculture near the Jordan River
37. During which administration was reverse-osmosis filtration developed?
- Kennedy administration
 - Nixon administration
 - Regan administration
 - Johnson administration
 - Ford administration
38. Why has the Carlsbad desal plant been repeatedly fined?
- It failed to meet its export quotas.
 - It introduced an invasive species to the local ecosystem.
 - It contaminated local water wells.
 - It dumped excessive amounts of brine into the ocean.
 - It violated an international treaty.

39. What is the approximate share of San Diego County's water supply produced by the Carlsbad desal plant?
- 4%
 - 13%
 - 10%
 - 16%
 - 7%
40. Which negative effect did Soviet scientists associate with the proposed rerouting of Siberian Rivers?
- extinction of certain Siberian wildlife
 - destruction of Siberian nomadic pastoral grounds
 - increase in soil salinization for delta-region farmers
 - catastrophic change to the Arctic Ocean's chemical balance
 - decrease in quality of life for Arctic Ocean fishermen
41. Why is iceberg towing not a viable solution for water access?
- The icebergs would melt too quickly.
 - The process requires nuclear technology.
 - The water requires intensive purification.
 - The cost is prohibitive.
 - The water has too many minerals.
42. Which river forms half the border of the United States and Mexico?
- Russian
 - Rio Grande
 - Missouri
 - Mississippi
 - Colorado
43. The Chinese have announced dam construction plans on the Nu/Thanlwin/Salween River to
- irrigate desert terrain
 - drain infested swamps
 - export freshwater abroad
 - lessen fossil fuel dependencies
 - power local fusion plants
44. An agreement between Uganda and Egypt attempted to
- build a new dam
 - negotiate river water rights
 - build aquifer infrastructure
 - settle disputes regarding fishing rights
 - preserve the depth of a lake
45. Which country borders Lake Victoria?
- Libya
 - Tanzania
 - Egypt
 - South Africa
 - Tunisia
46. Which statement BEST describes a weakness of the Guarani Aquifer Agreement?
- It pays countries a nominal amount to participate.
 - It set overly strict controls on aquifer access.
 - It has a pending expiration date.
 - It omits one of the major regional actors.
 - It lacks an enforcement mechanism.
47. By the 1970s, scientists learned that industrial emissions
- contaminated freshwater lakes
 - reduced nitrogen levels in the ocean
 - halted select parts of the water cycle
 - lowered the pH of water
 - lowered temperatures in the polar ice caps
48. How does a cap-and-trade system PRIMARILY decrease emissions?
- requiring businesses to draw water from desal plants
 - placing a cost on pollution
 - banning certain types of pollution
 - requiring businesses to file permits for pollution
 - establishing a government agency designed to enforce environmental law
49. Which country was the LAST to ratify the Guarani Aquifer Agreement?
- Brazil
 - Uruguay
 - Paraguay
 - Bolivia
 - Argentina
50. LRTAP has succeeded PRIMARILY in reducing
- freshwater contamination
 - sulfur emissions
 - brine ocean deposits
 - native species extinction
 - deforestation practices