

## Caltech Technophobia II

## Tossups by BYU B

1. He found that the sharing of edges and faces between two anion polyhedra in a coordinated structure decreases its stability. He also formulated the principle of parsimony and the electrostatic valency principle in crystallography. For ten points, name this American chemist who used electronegativity difference to estimate the ionic character of individual bonds and won the 1954 Nobel Prize in Chemistry.

Answer: Linus Pauling

2. A husband who plays the xylophone, a talkative Russian dance instructor, an in-law who concocts fireworks in the basement, and a candy-maker who pursues ballet all add to the anarchy surrounding Grandpa Vanderhof, who finally wins over his daughter's employer and future father-in-law after a dinner party riot between the Sycamores and Kirbys. For ten points, this is the plot of what 1937 play by Moss Hart and George Kaufman?

Answer: You Can't Take It With You

3. Journalist Arthur Six, dictator Emilia Berezon, and assassin Coyote are among the many villains hounded against the background of its immortal soundtrack by Lalo Schiffrin. Recently, for the first time in decades, Peter Graves was absent from the chase, which raced from Prague to Langley to London. For ten points, name this series-turned-movie, in which the Secretary promises to disavow any knowledge of Jim Phelps' IMF teams.

Answer: Mission Impossible

4. Sun Yat-Sen never intended to make Chongqing a seaport, but he concocted the idea that will bring ocean-going vessels to that city. At cost projections of up to \$75 billion, this engineering project is China's most ambitious since the Great Wall and may enable the use of about one-fifth of the Yangtze's total energy potential. For ten points, name this dam, site of the soon-to-be-flooded canyons, Qutang, Wuxia, and Xiling.

Answer: Three Gorges Dam

5. It is similar to the Red Sea in salinity, length, orientation, latitude, and water temperature, and both denote major tectonic boundaries. This year, this arm of the Pacific won the distinction of hurricane alley for a day. For ten points, name this submerged valley of the San Andreas Fault and onetime outlet of the Colorado River which separates mainland Mexico from Baja California.

Answer: Gulf of California

6. Just before his death, this author made his friend Max Brod promise to burn all of his unfinished manuscripts. Max disobeyed, instead preparing for publication such works as 'The Castle' and 'Amerika'. His works often deal with the uncanny and bizarre, for example the mysterious transformation of Gregor Samsa. For ten points, name this Czech author of 'The Metamorphosis'.

Answer: Franz Kafka

7. Founded by Omri, this city was temporarily renamed Sebaste by Herod and was the site of a successful ministry by Philip. The construction of

the temple at nearby Mt. Gerizim consummated the regional tension that began under Ezra and Nehemiah. For ten points, name this capital of northern Israel, whose hostile rivalry with Jerusalem provides the moral crisis in Jesus' parable on neighborly love.

Answer: \_Samaria\_

8. Sean O'Brien had wanted to return to Ireland, but eight sets of fang marks prevented him, and his friends wondered if the Cimarron, the Arkansas, and the Platte weren't too far north for water moccasins. For ten points, name this novel, in which Captain W.F. Call leads a cattle drive from Texas to Montana, written by Larry McMurtry.

Answer: \_Lonesome Dove\_

9. The town of St. Albans in this unlikely battleground state was invaded by Confederates from across the Canadian border, but the state is more famous for events leading up to its statehood, when it became the first state to follow the original 13 into the Union. For ten points, name this home of Fort Ticonderoga and the Green Mountain Rebellion in northwest New England.

Answer: \_Vermont\_

10. The chilly river in this 1851 painting is not the one in question, but the Rhine, which was used as a model. The boat in which the figures are sailing is of the wrong size and shape, the hero's heroic standing position probably would have resulted in his drowning, and the party would have been carrying the Grand Union Flag instead of the Stars and Stripes, which wasn't adopted until six months after the Hessians' defeat at Trenton. For ten points, name this painting by Emmanuel Leutze which hangs in the Metropolitan museum of art.

Answer: \_Washington Crossing The Delaware\_

11. Born in Nashville, he quit careers in medicine, law, and journalism before landing at La Paz, Baja California, in 1853, where he proclaimed an independent state. The Mexicans forced him back to California, where he was acquitted of the neutrality violations. For ten points, name this Southern expansionist who, after he seized Cornelius Vanderbilt's property and became president of Nicaragua, was taken prisoner by the British navy and shot by a Honduras firing squad.

Answer: William \_Walker\_

12. According to some of this author's books, Washington was stabbed and Franklin fought for the admission of the State of Irrakwa. Jackson defeated Napoleon in the Battle of Detroit, while Harrison, true to form, died of a cold after a month in the White House. For ten points, what author says it's impossible to "plagiarize history," although he is less famous for his Alvin Prentice fantasy series than for his science fiction novels such as Xenocide and Ender's Game?

Answer: Orson Scott \_Card\_

13. It takes its name from the Latin name for the Red Sea. Stretching from Cape Kasar to the Bab el-Mandeb Strait, it controls the coveted seacoast over which it fought its southern neighbor in the longest war for independence in modern African history. For ten points, name this nation, whose capital is Asmera and which, in 1993, broke away from Ethiopia.

Answer: \_Eritrea\_

14. Paul Revere, J. Edgar Hoover and Betsy Ross were born on this day, also the day Britain finally made it into the EEC in 1973. In 1863, on the same date, Lincoln issued the Emancipation Proclamation. For ten points, name this holiday, still known to college football fans since the Alliance's conception as the day of the Cotton Bowl, as well as the Tournament of Roses Parade.

Answer: New Year's Day or January 1st

15. This Duke of Aquitaine joined his brothers in revolt against King Henry II of England and later terrorized his allies, King Philip of France and Leopold of Austria. He never learned to speak English-- certainly not like Sean Connery, who once portrayed him in a single-scene cameo. For ten points, name this king, whose threat to fund the Crusades by selling London made the Sheriff of Nottingham's schemes look tame.

Answer: Richard I or Richard the Lion-Hearted

16. He killed King Acrisius with a discus, but another woman enabled this hero to rescue both his mother, Danae, and the princess Andromeda. For ten points name this son of Zeus who turned King Polydectes and a large sea monster to stone after beheading Medusa.

Answer: Perseus

17. This year's defeat of Notre Dame at the hands of USC kept the Trojans atop the list of victors over the Fighting Irish. But the team with the second-highest number of all-time wins against the Irish kept pace this year with a surprise upset, handing Bob Davie his first loss as Notre Dame head coach. For ten points, name this Big Ten upstart and in-state Irish rival at West Lafayette, home to the Boilermakers.

Answer: Purdue (prompt on Boilermakers)

18. He was not tremendously gifted, but he had the means to study mathematics, and he supported other mathematicians in their studies. He paid Johann Bernoulli to teach him calculus, and it is Bernoulli who is responsible for a discovery which bears this man's name because he was the author of the textbook in which it appeared. For ten points identify this man whose namesake rule states that the limit of a quotient of functions as  $x$  approaches zero equals the limit as  $x$  approaches zero of the quotient of the derivatives of the functions.

Answer: Guillaume-Francoise-Antoine, Marquis de l'Hôpital

19. The archaeological importance of this city, which flourished between 2500 and 1800 B.C., was recognized in 1922. Wells, plumbing, street drains, and the city's layout on a grid pattern make it unique among archaeological sites, although such advancements were unable to save it from destruction by flooding along the Indus River. For ten points, name this site in Southern Pakistan, whose name means 'the mound of the dead.'

Answer: Mohenjo-Daro

20. This law of economics was illustrated when 19th-Century Americans took advantage of the bimetallic currency system, by hoarding or melting down the gold coins and using only the silver coins. For ten points, name this law, first officially put forth by the financial agent of Queen Elizabeth I, which states, "Bad money tends to drive out good money."

Answer: Gresham's Law

21. This elusive character frequents busy streets and crowded rooms and roams from the Far East to the bottom of the sea. There is no reward on his head, yet countless people have spent hours in frustration looking for him. For ten points, name this friend of Wanda and the Wizard, created by Martin Hanford, and not-so-easily recognizable by his round glasses and red-and-white striped shirt.

Answer: Waldo

22. On July 6, 1942, the Japanese occupied and began developing this island, calling its success as a base "the fork in the road which leads to victory for them or for us." But Vandegrift's Marine landings on August 8th were practically unopposed, at least until Japanese reinforcements under Hyakutake arrived from Rabaul. For ten points, name this largest of the British Solomon Islands and site of a major naval battle in November 1942.

Answer: Guadalcanal

23. Gov. Ben Cayetano once belittled California for paying employees with IOU's, but his own state is now facing the worst regional recession in years, even as the rest of the nation booms. Median home prices, stagnating at \$300,000 after a Japanese investment frenzy in the late 1980's, exacerbate the collapse of the tourist industry, which provides a third of all jobs. For ten points, name this state, hit by Hurricane Iniki in 1992.

Answer: Hawaii

24. Unlike morphine, from which it is usually derived, it is not likely to cause euphoria or addiction, and similarly, its effectiveness as a pain-killer is reduced. Pierre-Jean Robiquet discovered this milky exudate of the unripe seed capsule of the opium poppy, which has antispasmodic and sedative effects. For ten points, name this most widely used narcotic, often prescribed in cases of dry cough.

Answer: codeine