Technophobia 3
Tossups by Stanford "A Team"
1:'Song titles of this oratorio include "All We Like Sheep Have Gone Astray", "For As In Adam All Die," "Unto Us a Son Is Given", and most famously, the chorus for which King George III stood up, making it the only oratorio with a 44th inning stretch. For ten points, name this oratorio by Handel.

Answer: The -Messiah-
2: "God save our queer old dean" and "It is kisstomary to cuss the bride," are two famous examples that have nothing to do with silverware of, for ten points, what linguistic slip that involves interchanging two consonants or syllables?

Answer: -Spoonerism-
3: More is known of his life than of most medieval philosophers because much of it is described in his famous "Historia calamitatum", often translated as "The history of my troubles". He also wrote commentary on St. Paul's letter to the Romans, "A Dialogue between a Philosopher, a Jew, and a Christian", and a dialectical analysis of sin called "Scito te ipsum" ("Know Thyself") in which he reached the conclusion that human actions can not make one better or worse in the sight of God. For ten points, name this logician and theologian, the author of "Sic et non".

Answer: Peter -Abelard- or Pierre -Abailard- or Petrus -Abaelardus-
4: This game is based on a mathematical recreation centered on Paul Erdos (AIRdush), but has wildly exceeded its forerunner in popularity. The idea is also loosely related to a John Guare play. For ten points, what primarily internet-based game has an Oracle that will put you in its Hall of Fame if you find someone with a number of 7 or higher?

## Answer: The -Kevin Bacon Game-, or _Six Degrees of Kevin Bacon-

5: He began in watch engraving at the Ecole des Arts Decoratifs at La Chau-de-Fonds, where Charles L'Eplattenier - his only mentor - convinced him to become an architect. He would have won the 1927 contest to design the League of Nations building in Geneva had he turned in his entry in India ink, as required; instead, his project would only become the basis for all future United Nations buildings. His Notre-Dame-du-Haut is a terrible example of his style; it sacrifices much functionalism for superficiality. For ten points, name this architect, born Charles-Edouard Jeanneret, the inventor of "Modulor" architecture.

Answer: -Le Corbusier- (accept early buzz of -Jeanneret-)

6: Ani DiFranco's upcoming album's title features this word repeated six times. It's the one-word title of Peter Gabriel's upcoming album. It's the one-word title of Right Said Fred's album featuring I'm Too Sexy. For ten points, give the one-word title of the latest offering from R.E.M.

Answer: -Up-
7: Edna Mahan Correctional Facility in Union Township will see a new visitor soon and for the next fifteen years. Hopefully the facility does not offer dance classes, since it was at a dance that this murderess committed aggravated manslaughter. For ten points, name this 20 -year-old New Jersey student who will probably serve fewer than three years for birthing then killing her newborn at her prom.

Answer: Melissa -Drexler-
8: Located at 8.5 degrees North, 31.4 degrees East, this sea is approximately 900 miles wide. Its first close-up description in 1969 was as "a collection of every variety of shapes, angularities, and granularities - every variety of rock you could find." For ten points, name this waterless misnomer, the landing spot of Apollo 11.

Answer: Sea of Tranquility (accept "Mare Tranquillitatis")
9: One was the queen of Jerusalem from 1192 to 1205. Another was the daughter of Philip IV of France and the wife of Edward II of England, who claimed the throne of France for her son Edward III upon the death of Philip's last son, Charles IV. For ten points, give the name these two women share with the queen of Spain from 1479 to 1504.

Answer: -Isabella- or -Isabelle-
10: Any subset of R-N that is closed and bounded. Any subset of a metric space that is complete and totally bounded. By the Bolzano-Weierstrass Theorem, any subset S of a metric space such that any sequence in S has a subsequence that converges to a point in $S$. By definition, any subset $S$ of a metric space so that every open cover of $S$ has a finite subcover. For ten points, what 7-letter word describes all these sets?

Answer: -compact- (accept -sequentially compact - before "open cover")
11: Five men take off in a hot air balloon from Richmond in the closing days of the Civil War and land at the title location. Although cut off from civilization, they manage to make nitroglycerin, furniture, and electricity. Things go well until a dying captain Nemo tells them that their residence will soon explode due to volcanic activity. For ten points, name this work by Jules Verne, a sequel to -Twenty Thousand Leagues Under the Sea.-

Answer: The -Mysterious Island-

12: Ay, tear her tattered ensign down!/ Long has it waved on high,/ And many an eye has danced to see /That banner in the sky. These lines helped to protect a frigate famous for its War of 1812 naval victories from being broken up. For ten points, what vessel, officially known as USS Constitution, is the oldest commissioned ship in the American Navy, largely because of Oliver Wendell Holmes' poem with the same name?

Answer: -Old Ironsides- (accept Constitution before it is mentioned)
13: Though he had been granted a yearly pension by his nation for his earlier work for the independence movement, he stopped work in 1928 at the age of 63, but lived another 29 years. He is known today by concert audiences primarily for his Second Symphony as well as the greatest Scandinavian violin concerto, but is most associated with his nationalistic epics. For ten points, what composer wrote the Lemminkainen suite containing The Swan of Tuonela?

Answer: Jean (Jan) -Sibelius-
14: It is 163 kilometers long, and contains 8 major bends. Its route passes through Lake Manzala, At-Tinah, Al-Kab, Al-Baqar, Al-Ballah, Ismailiah, Lake Timsah, Great Bitter Lake, Al-Kibrit, Small Bitter Lake, Tisah, and Bur Tafiq. It shares its name with its south terminal, and reaches Port Saeed in the north. For ten points, name this canal, which connects the Mediterranean Sea to a Gulf of the Red Sea.

## Answer: -Suez- Canal

15: Born into a provincial Jewish family and expected to follow in his father's footsteps as a rabbi, he chose to pursue a secular education by enrolling in the Ecole Normal together with friend and future French socialist party leader Jean Jaures. He believed that only science and educational reform could solve the condition of anomie - a term he used to refer to social discontentness causes by lacking norms. In works like "The Elmentary Forms of Religious Life", he constructed concepts of the sacred and of totemism. For ten points, name this French sociologist, author of "Le Suicide" and teacher of Claude Levi-Strauss.

Answer: Emile -Durkheim-

16: U-238 to Th-234. U-234 to Th-230. Ra-226 to Rn-220. Po-210 to Pb-206. For ten points, what particle, equivalent to a helium nucleus, is emitted in all of these radioactive decays?

Answer: -alpha- particle
17: This Swiss man, once a personal tutor of Catherine the Great, died in St. Petersburg after having gone blind. However, his blindness evidently did not impede his work, as two constants, a number theoretic function, a line in a triangle, and a method
for approximating solutions to differential equations, and numerous other mathematical objects bear his name. For ten points, what mathematician was so prolific that his works were still appearing in journals thirty years after he died?

Answer: Leonhard _Euler- (0i-ler)
18: One of the most frequent uses of the word is to describe an event that occurred in Prague in 1618 after a meeting of Protestant and Catholic representatives. More recently, it has been adopted to mean "the act of exiting a window system to get a faster response time." For ten points, what twelve-letter word means, "to throw out of a window"?

Answer: -Defenestrate- (The Defenestration of Prague)
19: While one definition of this word has to do with cooking poultry on a spit, rabid sports fans will know it as the process of drafting favorite players from teams around the league to create their own personal All-Star teams, which then compete with each other. For ten points, name this kind of league.

Answer: -rotisserie- (note: do NOT accept hot stove league or fantasy league!)
20: The last name's pronounced the same - you need only give one of their last names. The first one was bom with the last name Taylor, and has played Stephen Pynchon and Geoffrey Tolwyn. The second contributed his voice to A Bug's Life and played Octavian in Cleopatra. The first dragged around his droogs in a 1971 Kubrick classic and the second played the little boy Joe in the original Lassie Come Home. For ten points, name these actors, one of whom recently died of cancer; the other recently came back to life as Mr. Roarke on Fantasy Island.

## Answer: Malcolm -McDowell- and Roderick "Roddy" (Andrew Anthony Jude) -McDowall-

21: In the winter of 1805-1806, the Lewis and Clark Expedition stayed in Fort Ciatsop. Five years later, this city was set up, as a trading post. Under British control from 18131818, it has since been owned by the US. Since 1844, it has been the seat of Clatsop County. For ten points, name this Oregon city named after the founder of the American Fur Company.

Answer: -Astoria-, OR
22: In classical mechanics, it is a function defined as the sum of the products of time derivatives of generalized coordinates with the generalized momenta minus the Lagrangian of the system. In quantum mechanics, it is an operator that, when applied to the wave function, produces a constant multiple of a wave function. In both cases, it is directly related to the energy of the system. For ten points, identify this physical
quantity, which was initially associated with the least action principle when introduced in 1835 by the Irish mathematician whose name it bears.

Answer: -Hamiltonian-

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Stanford "A"
Bonuses

1) For IO points each, name the following Princeton mathematicians:

One of the earliest proponents of game theory, this Hungarian-bom mathematician also built one of the world's first computers at the Institute for Advanced Study.

## Answer: John -von Neumann- (NOI-man)

This mathematician lived with schizophrenia for almost thirty years, but recovered enough to receive the 1994 Nobel Prize in economics for his 1956 Ph.D. thesis on game theory.

Answer: John -Nash-
He is most famous for having invented the Game of Life, which is included in his massive 1982 work on game theory with Richard Guy and Elwyn Beriekamp, "Winning Ways: for your mathematical plays".

Answer: John -Conway-
2) Test your knowledge of 20th, century opera composers other than Puccini and Britten. Identify them from works ( $15 / 10 / 5$ ):

15: The opera "War and Peace"
10: The opera "The Love for Three Oranges"
5: The movie "Alexander Nevsky"
Answer: Sergei Prokofiev
15: The opera "Satyagraha"
10: The opera "Einstein on the Beach"
5: The movie "Kundun"
Answer: Philip -Glass-
3) It's time to mix and match astronomy with computer science. Answer the following questions after an astronomy clue for 10 points or after a second clue - a computer science clue - for 5 points.
A) (10) It's the brightest star in the constellation Aquila.
(5) It's the name of a kit-based PC from 1974, for which Microsoft released its first product: BASIC.

Answer: Altair (prompt on "Alpha Aquilae" after the 1O-point clue)
B) (10) Arabic for "the demon," it is the second brightest star in Perseus.
(5) A scientific programming language designed in 1958 - after FORTRAN.

Answer: -Algol- (prompt on "Beta Persei" after the 10-point clue)
C) (10) The name given to a constellation by Hevelius in 1687, it also happens to be the name of a short-tailed cat similar to the bobcat.
(5) It's the name given to the most popular text-based web browser.

Answer: -Lynx-
4) Name the artist from his works, 30-20-10.
(30) 1914's Pharmacy, a commercial print of a winter landscape with the addition of two small pill-bottle-like figures
(20) 1913's Bicycle Wheel, which was - as one might guess - simply a bicycle wheel.
(10) The 1912 painting Nude Descending a Staircase, No. 2

Answer: Marcel -Duchamp-
5) Sex, sex, sex, where would we be without sex? For the stated number of points, give the current significant others of the following celebrities.
A) (5) Will Smith

Answer: Jada -Pinkett-Smith-
B) (10) Sarah Jessica Parker

Answer: Mathew -Broderick-
C) (15) David Bowie

Answer: -Iman- (Abdulmajid)
6) A planet where apes evolved from men? Get your stinking paws off me you damned dirty ape! That's right, it's time for a Planet of the Apes bonus. For 5 points and a bonus 10 points for all in the correct order - list the four movie sequels.

Answer: -Beneath the Planet of the Apes -, -Escape from the Planet of the Apes_, Conquest of the Planet of the Apes-, -Battle for the Planet of the Apes-.
7) Uffizi, Uffizi, Uffizi! That's all I hear these days! Answer these questions about everybody's favorite art gallery for 15 points each.
A) Everyone knows that the Gaileria della Uffizi is in Florence, but for 15 points, who commissioned the construction of the Uffizi?

Answer: Duke -Cosimo- I dei -Medici-
B) For 15 points, name the Florentine Mannerist painter and architect who began the construction of the Uffizi.

Answer: Giorgio -Vasari-
8) How well do you know your Mexican Revolutionaries?

For 5 points, name the Durango born leader who's raid into New Mexico caused the US to send Gen. Pershing across the border in reprisal.

Answer: Pancho -Villa-
For 10 points, name the man who started the 1910 revolution with his call for Tierra y Libertad!

Answer: Emiliano -Zapata-
For 15 points, name the man who the US was supporting, the proximate cause of Villa's raid into US territory.

Answer: Venustianzo -Carranza-
9) In honor of Maribeth's sometimes gruesome questions, for 10 points each, given the early apostle, give the mode of rumored death.

A: John the Beloved
Answer: -boiled in oil-
B: Simon Peter
Answer: -crucified head down- (prompt on crucified)
C: Matthew

Answer: -stoned-
10) Name the author from works 3O-20-10-5.
(30) The Ides of March, The Eighth Day
(20) The Skin of Our Teeth, The Matchmaker
(10) The Bridge of San Luis Rey
(5) Our Town

Answer: Thornton Louis -Wilder-
11) Name the gas law from a description for the stated number of points:

For 5 points: The total pressure of a gas mixture is equal to the pressure of each component of the mixture.

## Answer: -Dalton's- Law of Partial Pressures

For 10 points: For a dilute gas at constant temperature, the product of the pressure and volume divided by the moles of gas is a constant.

## Answer: -Boyle's Law-

For 15 points: The total volume of a gas mixture is equal to the volume of each component of the mixture at the temperature and pressure of the mixture.

## Answer: -Amagat's Law-

12) How much do you know about the planes of World War II? Given a description, name the plane.

For 5 points: This plane, along with the Hawker Hurricane, was the main British fighter plane early in the war.

Answer: -Spitfire-
For 5 points: This American heavy bomber dropped the atomic bombs on Nagasaki and Hiroshima.

## Answer: -B-29- or -Superfortress-

For 10 points: This flight of long range American fighters was successful in shooting down the plane carrying Admiral Yamamoto of Japan.

Answer: -P-38- or -Lightning-
For 10 points: This divebomber carried the day for the Americans at Midway, sinking all four Japanese carriers.

Answer: -SBD-2-or -Douglass-
13) Give the first line of these poems based on the last line for ten points, or based on the poem title for five.
(10) The lone and level sands stretch far away.
(5) "Ozymandias" by Shelley

Answer: -I met a traveller from an antique land-
(IO) To strive, to seek, to find, and not to yield.
(5) "Ulysses" by Tennyson

Answer: -It little profits that an idle king_
(10) And - which is more - you'll be a Man, my son!
(5) "If" by Kipling

Answer: -if you can keep your head when all about you-
14) Geography Bonus. Given a major river, name the country it starts in and the country it ends (or empties into a sea) in for 5 points apiece.
A. Nile (considered to start with the Kagera River)

Answer: _Burundi_and -Egypt-
B. Danube

Answer: -Germany- and -Romania-
C. Congo

## Answer: -Zambia- to -Democratic Republic of the Congo- (accept -Zaire-)

15) $30 / 20 / 10$, name the Greek letter:

30: It had two different forms in both lower case and capital, one for the middle of a word, and one at the end of a word.

20: The capital version of the second of these forms, called "lunate" eventually became the Roman letter C.

10: The primary form of the capital is used in mathematics to denote summation.
Answer: -Sigma-
16) Note to moderator: do not read the answer after each part. Please give the Taylor Expansion of the following quantities to the first order in x ( x goes to 0 ) for 10 points each:
A. $1 /(1-x)$ (The inverse of the quantity one minus $x$ )

Answer:-1+x-(ONEPLUSX)
B. In $\left(e+e^{*} x\right)$ (The natural logarithm of the sum e plus e times $x$ )

Answer: $-1+\mathrm{x}$ - (ONE PLUS X)
C. $\operatorname{sqrt}(1+2 x)$ (The square root of the sum 1 plus two $x$ )

Answer: $-1+\mathrm{x}$ - (ONE PLUS X)
17) It is once again time for Elliot's signature question. Please identify these people, all of whom were bom today, on November 7, for 15 points each.
(15) Dubbed "the funniest man in New York" by Alexander Woolcott, this journalist and screenwriter, who was a member of the Algonquin Round Table, may be best known to you as the coauthor of the screenplay for Citizen Kane.

Answer: Herman -Mankiewicz-
(15) Born in 1817, this white female South African politician was, for many years, one of the most outspoken advocates for the non-white majority as the sole anti-apartheid member of Parliament.

Answer: Helen -Suzman-
18) Please identify the following twentieth century author 30-20-1 0 .
(30) He was a serious entomologist, and one of the threatened American species of the genus Lycaeides is named after him.
(20) He was educated at Cambridge and taught Russian and European literature at Cornell between 1948 and 1958
(10) His books include "Pale Fire", "Pnin", and "Luzhin's defense".

Answer: Vladimir -Nabokov-
19) Please answer the following questions about the recent political turmoil in Russia for 10 points each.
A. The government headed by this longest-surviving post-Soviet prime-minister was dissolved about six months ago. In the meantime, he has been preparing to run for presidency in 2000 as the candidate of Our Home is Russia party.

Answer: Victor -Chernomyrdin-
B. This young technocrat, who replaced Chernomyrdin, was removed after only four months in the prime-minister's office.

Answer: Sergey -Kiriyenko-
C. The current Russian prime-minister, this compromise candidate has been a foreign minister for many years. He admits to having no economic knowledge ... but then, he is a former member of the KGB, which may be more important in modern Russia.

Answer: Evgeniy -Primakov_
20) Time for your current events question, Technophobia style. Answer these questions about John Glenn's shuttle flight.
A) (15) For 15 points, name the shuffle commander on the October 29th launch

Answer: Curt -Brown-
B) (10) Although we're not sure how many they'll actually achieve, how many orbits are Brown, et al. planning to take? Ten points for the correct number, 5 points for guessing within five.

Answer: -144- (of course, 5 points for 139-149)
C) (5) For your last 5 points, on which space shuttle are Glenn and pals flying?

Answer: -Discovery-
21) For 10 points each, answer the following questions about events that occurred on November 8:
A. On November 8, 1793, this building opened in Paris with a new purpose, having been replaced in its old capacity under Louis XIV.

Answer: The -Louvre-
B. Founded on November 8, 1837, this was the first women's college in the United States.

Answer: -Mount Holyoke- Seminary
C. On November 8,1980 , this space probe discovered the 15 th moon of Saturn.

## Answer: Voyager I

22) Answer the following questions about a significant object in French history for 10 points each.
(10) What holiday, celebrated in France on July 14th, commemorates a 1789 event surrounding this object?

Answer: -Bastille Day-
(10) The first stone of the Bastille was laid on April 22, 1370, by this French king, nicknamed the Wise. For the next 10 points, name this king, who lead France to a recovery from the devastation of the first part of the Hundred Years'War.

Answer: -Charles V-
(10) The Bastille was first used as a prison during the tenure of this chief minister to Louis XIII. For your final 10 points, name His Red Eminence.

Answer: Cardinal -Richelieu-, Armand-Jean du Plessis

