

Berkeley Late Spring Tournament—I Know Kung Fu (2004)

Questions by Berkeley Yi (Fredy Gonzalez, Lev Trubov, Yi Zhang, Martin Kohan)

1. He founded the environmental group Green Cross International in 1993, to which he donated his royalties from narrating an introduction and epilogue to a Russian National Symphony performance of Peter and the Wolf with his often-mocked southern Russian accent. "Because of him we have things like Pizza Hut!", according to a commercial in which he appeared to raise money for the Perestroika Library and Archives. For 10 points--name this final leader of the Soviet Union.

Answer: Mikhail Gorbachev

2. They are the only surviving members of the Anapsid clan, distinguished from all other amniotic vertebrates by their lack of a temporal opening in the skull. In the course of the evolution of their most distinct feature, their pectoral and pelvic girdles moved inside their rib cages. The only other group of vertebrates besides birds to have teeth replaced with horny beaks, this is, FTP, what order of reptiles that includes the matamoras, the leatherback, and the Galapagos tortoise.

Answer: Chelonia or Testudines, accept Turtles before "order of reptiles", do not accept Tortoises or Terrapins

3. When asked why he only wrote "one book full of candor and human warmth," this author replied, "Because I've only lived one life." That life included a stint as a spy in Russia during the Bolshevik revolution. In one novel, the protagonist sees his best friend and fellow World War I pilot die, prompting him to embark on a spiritual quest; in another, the protagonist dies of leprosy after painting the walls of his hut on Tahiti. Those protagonists are Larry Darrell and Charles Strickland, who is based on Gauguin. FTP, name this author of the semi-autobiographical work, *Of Human Bondage*.

Answer: William Somerset Maugham

4. Complex and almost-complex manifolds have natural ones, which yields intersection positivity. It can be defined by a globally compatible choice of generators for the local homology at each point on a manifold, or a choice of a top degree differential form or homology class up to sign, or simply a choice of a frame of mutually perpendicular vectors. It is preserved by a map if the sign of the Jacobian determinant is positive. For 10 points--what structure, which cannot exist on a Klein bottle or Mobius band, tells you things like which side of a surface you are on or which direction is counterclockwise?

Ans: orientations

5. This song was first released in the UK as a single off the album "The Hurting" in 1982 and also included as the first track on the album "Shout: The Very Best of Tears for Fears". The song begins "All around me are familiar faces. Worn out places. Worn out faces. Bright and early for the daily races, going nowhere, going nowhere..." FTP, what song went to the top of the charts as a cover by Gary Jules that is featured at the end of the movie *Donnie Darko*.

Answer: Mad World

6. Works in this key include J. S. Bach's passacaglia for organ, BWV 582; Dvorak's First Symphony, which he thought lost; Beethoven's Piano Sonata No. 8, or "Pathétique"; Mahler's Resurrection Symphony; Rachmaninoff's Piano Concerto No. 2; the second prelude/fugue pair in Bach's *Well-Tempered Clavier*; and Beethoven's Fifth Symphony. For ten points, what is this minor key signature with three flats, the relative minor of Eb major and the parallel minor to the simplest major key?

Answer: C minor or c-moll

7. When asked why it was needed, the man who convened it opened a window and said, "I want to throw open the windows of the Church so that we can see out and the people can see in." It asserted that the Jews as a people are not to blame for killing Christ. Closed under Pope Paul VI, it established guidelines to govern the revision of the liturgy and reduced Pentecost and Epiphany to one-day celebrations. FTP, name this church council which opened under Pope John XXIII in 1962, and allowed Mass to be practiced in vernacular languages.

Answer: Second Vatican Council or Vatican II

8. A colonel in the Mexican War, he fought at Buena Vista all day with a bullet in his foot. As a US Senator he took an active role in opposing the compromise measures brought forth by Henry Clay and demanded that Congress protect slavery. He served as Secretary of War during the Pierce administration, where he improved and enlarged the Army. When Lincoln became President, he resigned from the Senate in hopes of becoming the head of the Army of the Confederate States. For 10 points, name this man that served as president of the Confederate States of America during the Civil War.

Answer: Jefferson Davis

9. The captives journey for a month to find a giant hurricane-producing eagle, but have to turn back since their only weapons are two useless bows and a water gun. One character has his eyes burned out for trying to escape, and radiation scarring that makes him look like a chimpanzee. When given unopenable cans of food, that character, Benny, begins to eat Gorrister's face. The computer AM turns Ted into a blob in, FTP, what Harlan Ellison story in which Ted can't express himself vocally because he lacks a certain anatomical feature?

Answer: I Have No Mouth and I Must Scream

10. This chemist's theories were not at first readily accepted and challenged with an alternate model by C. W. Blomstrand called "Chain theory". The dispute was finally resolved when the chemist was able to demonstrate that exactly two geometrical isomers of tetra-amine-di-chloro-cobalt(III) cation exist, one purple and one green. This proved that ligands directly bond to the metal ion in fixed geometries. FTP, name this "founder of coordination chemistry."

Answer: Alfred Werner

11. It included most of Eriador, with the Brandywine, Greyflood, and the Great Road forming its southern border. The chief Palantir of the north was located at its Great Watch-tower of Amon-Sul on Weathertop hill. In year 1975 of the Third Age, it was destroyed by the Witch-lord of Angmar, and the line of its kings survived in exile as Chieftains of the Dunedain. At the peak of its power it stretched ~~from~~ from the Blue Mountains in the west to the Misty Mountains in the East. FTP, name this Middle-Earth kingdom, founded by the Numenorians as a sister-kingdom to its southern counterpart, Gondor.

Answer: Arnor

12. It invalidated Ambassador Ellsworth Bunker's description of "steady, continual progress" and the "light at the end of the tunnel" boast of William Westmoreland. Nearly three thousand civilians were killed by the attackers during the fighting for the citadel in Hue, while American shelling of the village of Ben Tre led to the remark that "it became necessary to destroy the town to save it." FTP, the Vietnamese Lunar New Year signalled the opening of this 1968 Vietcong offensive.

Ans: Tet Offensive

13. Inspired by reports of Romanes and Morgan that described the way cats and dogs opened gate latches, he designed a puzzle box apparatus for studying animal behavior. His studies led him to develop his theory of connectionism, a model of behavior based on the formation of neural networks through perceived stimuli. He found that any response made in a particular situation becomes associated with that situation, and that rewarding a response strengthens the response association. FTP name this man who influenced the behaviorists with his laws of exercise and effect.

Answer: Edward Lee Thorndike

14. This poem, originally sung to the tune of "Old Hundred," concludes, "Spirit, that made those heroes dare/ To die, and leave their children free,/ Bid Time and Nature gently spare/ The shaft we raise to them and thee." That shaft was the battle monument where this poem was sung on July 4, 1837. Beginning, "By the rude bridge that arched the flood,/ Their flag to April's breeze unfurled,/ Here once the embattled farmers stood," FTP, name this Emerson poem whose next line is, "and fired the shot heard round the world."

Answer: Concord Hymn

15. The family of failed coup leader Mohamed Oufkir were among the political prisoners detained for decades in this country's secret Tazmamart prison. In 1999, its new king pardoned or commuted the sentences of nearly 50,000 prisoners, a marked break from the autocratic 38 year rule of Mohammed VI's father, Hassan II. For 10 points--name the northwest African kingdom located across the Strait of Gibraltar from Spain.

Answer: Kingdom of Morocco

16. The bronze sculpture *Reclining Nude II* and the painting *Young Sailor II* were among the works by this artist donated to the Met in the 1990s. *Lilacs*, *The Chapel of St. Anne*, portraits of his daughter Marguerite, and a study for the mural *Dance* are among the almost 50 more that will go to it as part of the collection of the artist's son, a prominent modern art dealer named Pierre. For 10 points--which longtime rival of Picasso as the last century's greatest visual artist created *Joie de Vivre* and led the Fauvists?

Answer: Henri Matisse

17. He is rumored to have started pimping prostitutes before he reached puberty. Despite his illegitimate activities, he opened soup kitchens to feed the poor, and even lobbied for milk bottle dating to ensure the safety of children. By the late 1920s he ran an underworld empire valued at over \$60 million, and was prepared to engage in outright war with his rival, George "Bugs" Moran. He spent 4.5 years in Alcatraz on charges of tax evasion. For 10 points, name this big-time Chicago gangster that masterminded the St. Valentine Day's Massacre.

Answer: Al Capone

18. The Fomalont-Kopeikin experiment claimed to measure the speed of this phenomenon, and showed that it was approximately equal to the speed of light. Some attempts to quantize it include Smolin and Rovelli's loop quantum theory and Penrose's Twistor theory. The boson carrying it is hypothesized to have spin 2, although it has never been directly observed, and LIGO is the most sensitive experiment established to look for waves caused by this force. For ten points, what is this fundamental force, the center of Einstein's General Theory of Relativity, and most famously discovered by Isaac Newton?

Answer: gravity

19. Characters from this author's works include the merchant Petunikoff and Captain Aristid from his story *Creatures That Once Were Men*. The girl Tanya and a group of poor bakers who revile her after the soldier seduces her are the title characters of *Twenty-six Men and a Girl*. His novel *Mother* was adapted in Brecht's play *The Mother*, but he is better-known for his own play which shows a group of derelicts in a cave-like cellar. FTP, name this bitter Russian author of *The Lower Depths*.

Answer: Maxim Gorky or Aleksei Maksimovich Peshkov

20. The word "Dallas", in the line "A fella could have a pretty good weekend in Dallas with all that stuff", was overdubbed by "Vegas" following Kennedy's assassination. The line refers to survival kits containing nylon stockings, prophylactics, and a combination Russian phrase book and Bible that Maj. Kong describes to his men. Kong was played by Slim Pickens, but was originally to be the fourth character played by the portrayal of President Muffley, RAF Col. Mandrake, and the title scientist. For 10 points--name this Kubrick black comedy about a nuclear misunderstanding.

Answer: Dr. Strangelove, or How I Learned to Stop Worrying and Love the Bomb

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1. FTSNOP, answer the following questions about the Calvin cycle.

5) The Calvin cycle accomplishes fixation of this element into organic compounds.

Answer: carbon

15) This seldom-remembered Berkeley professor was a co-discoverer of the cycle along with Melvin Calvin.

Answer: Andrew Adam Benson

10) This enzyme, the most common protein on Earth, catalyzes atmospheric carbon fixation.

Answer: RubisCO or ribulose-1,5-bisphosphate carboxylase or RuBP carboxylase

2. Name these starfighters from the *Star Wars* films from description, 5-10-15.

5) In the battle against the first Death Star, the Red Squadron was composed of this type of starfighter. Luke and Wedge Antilles flew this type throughout the three original films.

Answer: Incom T-65 X-Wing

10) An older type of starfighter, this type composed the Gold Squadron in the battle against the first Death Star, and these fighters made the first attempt at the trench run.

Answer: Koensayr BTL-S3 Y-Wing

15) A new design, the fastest fighter in either Alliance or Empire fleets, a fighter of this type crashed into the bridge Imperial Super Star Destroyer *Executor* during the battle against the second Death Star.

Answer: Alliance RZ-1 A-Wing

3. The Middle East is a hotspot indeed. FTPE:

10) It is said that this man has survived more assassination attempts next to Charles de Gaulle and currently serves as the chairman of the PLO.

Answer: Yasser Arafat

10) He became Prime Minister of Israel in 1977 and signed the Camp David Accords along with Anwar el-Sadat of Egypt.

Answer: Menachem Begin

10) Israel's Prime Minister during the Six-Day War and a former director of the ministries of defense and finance, he favored Israeli cooperation with Arab states to develop the Middle East.

Answer: Levi Eshkol

4. Name these operas that were altered by the Soviets for 10 points each.

10) This Glinka opera was renamed for its peasant hero Ivan Susanin. In the Soviet version, Susanin saves a patriotic official rather than Mikhail Romanov.

Answer: A Life for the Czar

10) The massacred title group of this 1836 Meyerbeer grand opera was replaced by the anti-Czarist Decembrists.

Answer: Les Huguenots

10) In *The Struggle for the Commune*, this work's Soviet counterpart, the mildly pro-Carbonari Cavaradossi becomes a revolutionary, and his painting of the Madonna becomes a depiction of the Red Army.

Answer: Tosca

5. Name these Nobel Prize-winning writers from clues on a 15-10 basis.

15) He wrote of a mysterious epidemic which causes the breakdown of society in his novel *Blindness*.

10) This Portuguese author and Nobel Prize winner also wrote *The Stone Raft*.

Answer: José Saramago

15) Her works include *Tala*, and *Ternura*, or *Tenderness*.

10) This Chilean poet wrote *Sonnets of Death*, and *Desolación*.

Answer: Gabriela Mistral or Lucila de María del Perpetuo Socorro Godoy Alcayaga

6. Answer the following about a body in orbit around a much larger body under the influence of an inverse square force such as gravity FTPE.

10) Kepler's Second Law, of equal areas, is merely a restatement of what principle?

Answer: law of conservation of angular momentum

10) If the semimajor axis of the orbit of 4 AU, what is its sidereal period in years?

Answer: 8 years

10) In motion under an inverse square law, another conserved quantity is this vector, whose magnitude is the eccentricity of the orbit and which points towards the perihelion.

Answer: Laplace-Runge-Lenz vector

7. Name the following about modern art exhibitions in New York FTPE.

10) Though this 1913 exhibition organized by Arthur Davies included works by Ingres and Delacroix, the more controversial works among the 1600 it showed were by Matisse, Brancusi, and especially Duchamp.

Answer: Armory Show or International Exhibition of Modern Art

10) This movement, which studied effects such as the illusion of movement through placement of adjacent color fields, first gained prominence with the 1965 MOMA show "the Responsive Eye," including works by Victor Vasarely and Bridget Riley.

Answer: Op Art

10) This New York museum of American art, located on Madison Avenue since 1966, holds perhaps the most important regular exhibition of modern American art, known as the "Biennial."

Answer: Whitney Museum of American Art

8. He was conceived after a freak rainstorm forced his reluctant parents to actually sleep together. FTPE:

10) Name this absolutist monarch who exclaimed, "L'état, c'est moi!"

Answer: Louis XIV

10) Louis revoked the Edict of Nantes with this 1685 edict.

Answer: Edict of Fontainebleau

10) In his youth, Louis suffered through this uprising against Cardinal Mazarin.

Answer: Fronde

9. Name these characters from the Old Testament, FTPE:

10) Conceived by Abraham and Sara when they were elderly, God ordered Abraham to sacrifice this child, spared only when God ordered Abraham to sacrifice sheep instead.

Answer: Isaac

10) One of Isaac's two sons, he tricked Abraham into stripping Esau of his birthright and later changed his name to "Israel". His twelve sons form the basis for the twelve tribes of Israel.

Answer: Jacob

10) The sons of this son of Isaac had exclusive right to the priesthood. When Moses led the Hebrews out of Egypt, the descendancy of this son was the only tribe that didn't worship the Golden Calf.

Answer: Levi

10. Name these entrepreneurs who started young, FTPE.

10) From his University of Texas dorm room he started his computer empire, and finally incorporated his namesake company that sells computers directly to customers by the time he finished his freshmen year.

Answer: Michael Dell

10) He was looking for work in restaurants as early as age 11. A millionaire by age 35, he named his restaurant chain with over 5,000 locations after his third daughter.

Answer: Dave Thomas

10) A former motel owner, he and three others crafted Long Distance Discount Service during a meal at a Sizzler. He is currently under investigation after the downfall of MCI WorldCom, for which he was the CEO.

Answer: Bernie Ebbers

11. Name these types of reproductive barriers, FTPE.

10) There is either no sexual attraction between males and females of different species, or the mating rituals are different, and thus the two do not understand each other. An example is the blinking pattern of each species of firefly.

Answer: Behavioral isolation

10) Structural differences in sex organs prevent fertilization. An example is a flower whose structure allows it to be pollinated by only 'its own' species of insect.

Answer: Mechanical isolation

10) The two species have healthy offspring that are incapable of forming offspring with either parent species or with each other. An example of this is the mule.

Answer: Reduced hybrid fertility, accept hybrid infertility, hybrid sterility, or equivalents, do not accept or prompt on infertility, sterility, or equivalents.

12. ESPN has run a feature on the best playoff performances in NBA history, so identify a few of these FTPE.

10) This man shut up Spike Lee in 1994 by dropping 25 points on the Knicks in the fourth quarter of Game 5 to complete a comeback from 2-0 down.

Answer: Reggie Miller

10) In 1987, this Warrior scored an eye-popping 29 points in the fourth quarter, leading them to their only victory over the Lakers.

Answer: Eric "Sleepy" Floyd

10) In 1989, Michael Jordan hit a series-winning shot over this Cavalier, who was simply unable to stay in the air as long as Jordan.

Answer: Craig Ehlo

13. Answer these questions on an Italian medieval poet, FTPE

10) He wrote *La Vita Nuova*.

Answer: Dante Alighieri (accept either name)

10) *La Vita Nuova* tells of Dante's first sight of this woman when he was nine and she was eight. Love for her inspired much of his work.

Answer: Beatrice Portinari

10) Dante was a member of this political party, which was defeated and exiled after a coup in the city of Florence in November 1301, a struggle that is referred to in *The Divine Comedy*.

Answer: White Guelfs (prompt on Guelfs)

14. FTPE, answer the following on Argentina.

10) This term denotes the victims of Argentina's "Dirty War" in the late 1970s, imprisoned without trial, tortured and killed.

Answer: Los desaparecidos the disappeared ones

10) Argentina engaged in a war with Great Britain over these islands that lie 310 miles east of the Strait of Magellan.

Answer: Falkland Islands, Islas Malvinas

10) She became the first woman president in the Western Hemisphere.

Answer: Isabel Peron, prompt on Peron

15. Answer the following about the position that is not worth a bucket of warm spit, or maybe piss, FTPE.

10) Buchanan's Vice-President, he was nominated for President by the Southern Democrats in 1860, and would later fight in the Confederate Army.

Answer: John Breckinridge

10) Coolidge's Vice-President, he won the 1925 Nobel Peace Prize for arranging a plan for German reparations after World War I.

Answer: Charles Dawes

10) Theodore Roosevelt's Vice-President, he hoped to be the Republican presidential nominee in 1908 but did not get along with Roosevelt. He was also Charles Evans Hughes' running mate in 1916.

Answer: Charles Fairbanks

(note: according to some accounts, Garner actually said the vice-presidency was not worth a bucket of warm piss)

16. Answer these questions on bridges, FTPE:

10) The twenty longest bridges in the world are this type of bridge, in which long cables linked to long vertical towers hold up the roadbed. Examples include the George Washington and the Golden Gate bridges.

Answer: Suspension bridges

10) The longest suspension bridge in the world is this bridge, built in 1998 in Japan and spanning roughly one and one-quarter miles.

Answer: Akashi-Kaikyo bridge

10) This suspension bridge collapsed in November 1940, when high winds caused the bridge to vibrate at its natural frequency.

Answer: Tacoma-Narrows Bridge

17. Identify these CPUs from a short description FTPE.

10) This Intel CPU, part of a long and distinguished microprocessor line, was the last to bear a numerical designation before Intel switched to "Pentium".

Answer: 80486

10) This Motorola CPU, named for the approximate number of transistors it had, powered the first Macintoshes and continued to appear in Macs until it was replaced by the PowerPC.

Answer: 68000 or 68K

10) This Digital processor, developed as a successor to the VAX line, was the world's fastest processor when it debuted in 1992.

Answer: Alpha AXP

18. Off with her head... FTPE:

10) This queen was beheaded on the orders of her cousin, Elizabeth I, in 1587.

Answer: Mary Queen of Scots

10) Mary first married this French dauphin when she was only 15. This dauphin's reign lasted less than a year in which the long, bitter rivalry between the noble houses of Guise and Bourbon began.

Answer: Francis II

10) Mary later married this cousin, a weak and worthless husband, who died when an explosion was set off in his home.

Answer: Henry Stuart or Lord Darnley

19. Answer these questions on an arrogant old man, F15PE:

15) A professor at Yale and NYU, this literary critic has been an ardent opponent of the politicization of literature and places ascetic value over social agendas, writing works such as *A Map of Misreading* and *The Anxiety of Influence*.

Answer: Harold Bloom

15) Among his works is this book, in which Harold Bloom argues for the autonomy of asceticism and provides a list of books he feels are most influential in western literature.

Answer: *The Western Canon: The Books and School of the Ages*

20. Identify these types of elasticity in demand FTPE.

10) This elasticity for two goods is positive if they are substitutes, and negative if they are complements.

Answer: cross elasticity of demand

10) For inferior goods, this quantity is negative; for normal goods, it is positive.

Answer: income elasticity of demand

10) This elasticity is obtained by measuring the elasticity of an isoquant.

Answer: elasticity of substitution