## Cardinal Classic XIII: The Legend of Zwarte Piet Round 6

Tossups by Caltech (Jordan Boyd-Graber, Irene Ying, and Kevin Costello)

1. Although foreigners could own shares in it, they had no voting rights, and no individual could own more than thirty shares. Because seventy percent of the shares were owned by foreigners, paying dividends on the stock meant depleting America's already scarce specie reserves. Its policies further weakened specie circulation in favor of dollars, and systematically undermined the role of its state counterparts, thus provoking the ire of regionalists who ensured its demise in 1811. For ten points, identify this short-lived federal arbiter of monetary policy headed by Alexander Hamilton.

Answer: First National Bank (or First Bank of the United States)
2. The months of Atlcaualo (ah-tl-cow-AH-lo) and Tozoztontli (toe-zoz-TONT-lee) were dedicated to him, and he was believed to cause diseases such as dropsy and leprosy. Similar to the Mayan God Chac, he was said to have 4 jugs which could do everything from bringing about the end of the world to just making plants grow. The presider over the third of five ages was, for ten points, which Aztec God of fertility and rain?

Answer: Tlaloc
3. After becoming interested in physical fitness, this romantic nihilist created his own small army, the Shield Society. His work often involves the paradoxical relationships between survival and death, beauty and violence, and yearning for love while rejecting it. The Sailor Who Fell From Grace with the Sea and Confessions of a Mask are among his famous works. For ten points, name this writer who committed seppuku after writing The Sea of Fertility and The Temple of the Golden Pavilion.

Answer: Yukio Mishima
4. Impose momentum conservation with a delta function and multiply by the vertex factor at each internal point. Multiply by the propagator for each internal line and then integrate over all undetermined momenta; finally, divide by the overall symmetry factor. Taken together, these rules indicate how to calculate a value for a diagram which represents a term in a perturbation series expansion of interacting quantum fields. Both the rules and the diagram are named for, FTP, what theoretical physicist who shared a Nobel Prize with Tomonaga and Schwinger?

Answer: Feynman rules or Feynman diagram or Richard P[hillips] Feynman
5. When he learned that his father was dying, he rushed to Pataliputra, which he subdued by force and then killed all of the rival princes save his own brother. After ascending to the throne four years later, he invaded Kalinga and brutally suppressed the populace. He supported Jainism, Buddhism, and Asceticism within that Mauryan Empire and tried to foster coexistence after devoting himself to pacifism and vegetarianism after becoming repulsed at his early actions. For ten points, identify this grandson of Chandragupta who erected giant pillars to teach his newfound insights to pilgrims.

Answer: Asoka or Ashoka
6. This author's work The Buenos Aires Affair metaphorically criticized Peronist right-wing policies. Consequently, he was advised to leave the country or risk persecution or death. Earlier works such as Heartbreak Tango and Betrayed by Rita Hayworth also met with Argentinian resistance including his most famous work, which had to be published in Spain instead. FTP who is this author of Kiss of the Spider Woman?

## Answer: Manuel Puig

7. After the performance of his first drama, The Swamp Dwellers in 1958, he became a strong voice for political change and human rights and was imprisoned for two years as a political dissident. After his release he published his reflections on this experience in The Man Died. His most recent work, The Open Sore of a Continent, examines the present tyranny of Obasanjo. For ten points, name this dramatist of Death and the King's Horseman and The Lion and the Jewel, a Nobel Laureate from Nigeria.

## Answer: Wole Soyinka

8. It has been synthesized using only methane and a calcium carbonate catalyst, but this is a slow route to make this 10 -carbon compound. A by-product of coke-making that becomes a component of tar, it is also widely used in dyes,
pharmaceuticals, and more familiarly in insect repellents. FTP, identify this aromatic compound consisting of two fused benzene rings, the primary ingredient in most mothballs.

## Answer: naphthalene

9. This work is dedicated to Talleyrand, whose essays on education form the counterpoint on which the work rests. It contends that the traditional education system is a means by which a class of individuals are kept in a demoralizing state of ignorance and dependence. Servitude is perpetuated through the institution of marriage, which is described as a form of "legal prostitution" in which women are sexually and economically exploited slaves. For ten points, name this classic feminist text by Mary Wollstonecraft.

## Answer: A Vindication of the Rights of Woman

10. For more than two arguments, this operator is defined to be true if and only if an odd number of its arguments are true, thus making the operation equivalent to addition modulo 2 . The symbol for this operation is pronounced as the Latin word "aut," which is either an underlined inverted caret or a circled plus sign. When taken on inputs A and B , it is equivalent to " A and not B , or B and not A ." For ten points, identify this boolean operation that means "or, but not both."

Answer: Exclusive Or (or XOR)
11. Alternative names for him include Sumukha, Kapila, Ekadanta, and Lambodara, the last of which translates as "Lord with the prominent belly." He is the remover of obstacles, and is thus often invoked at the beginning of a task or project. The son of Shiva and Parvati (par-VAH-thee), various stories relate how Shiva decapitated him, leading to his most prominent physical feature. FTP, name this Hindu god whose head was replaced with that of an elephant. Answer: Ganesha or Ganesh or Ganapati
12. He has the wrists of an eighty-year-old from playing Razor Fight II: The Slashening, and the Love-Matic Grampa said that he is gay. He recalls the nation's bicentennial fondly, saying "Those tall ships really lifted the nation's spirits after Watergate." Despite his age, he's still at Springfield elementary dancing jigs to keep Marge from saving Bart from bullying and driving a Hyundai, which is the target of vandalism by Skinner and Chalmers. For ten points, identify this recently divorced Simpsons bully whose son sleeps in a drawer, the companion of Jimbo and Dolph.

Answer: Kearney
13. The overture to this opera was written in a single night as an example of composition to its composer's students. The goal of the protagonist of this opera, as was revealed by a decapitated giant whose breath incapacitated its hero, is to cut off the beard of an evil sorcerer, Chernomo, who is holding the damsel in distress. Three knights and the betrothed venture out to rescue the damsel, and King Vladimir has declared that whoever rescues her gets to keep her. For ten points, what is this opera adapted from an epic Pushkin poem by Mikhail Glinka?

Answer: Ruslan i (and) Ludmilla
14. Cells found in this part of the body were found to link directly with the suprachiasmatic nucleus, the part of the brain that controls the circadian rhythms in mammals. While many of these RGCs don't respond to external stimuli, those that contain melanopsin responded to light, making them the third class of cells in this region that respond to light along with rods and cones. For ten points, identify this part of the eye that interprets light into neural impulses.

Answer: Retina
15. For political reasons he went into exile in Denmark and later in the United States, where he worked on antifascist films such as Hangmen Also Die. One of his most important theoretical works is A Little Organum for the Theatre, but better-known ones include Jungle of Cities, The Rise and Fall of the City of Mahogany, and Galileo. For ten points, name this Marxist dramatist of The Caucasian Chalk Circle and The Threepenny Opera.

Answer: Bertold Brecht
16. The title of this painting is the result of a late $18^{\text {th }}$ century interpretation of the painting which gives a moralistic reading of the nude figure. The painting, meant to celebrate the marriage of Nicolo Aurelio, depicts the bride sitting next to Cupid on a sarcophogas. She is assisted by Venus, who bears the eternal flame of God's love. The title, assigned 200 years after its painting, interprets the bride as godly constancy and Venus as pagan hedonism. For ten
points, identify this masterpiece of Titian.

## Answer: Sacred and Profane Love or Amor Sacro e Amor Profano

17. A poultry farmer with a degree in agriculture from the Munich Technical University, he was elected to the Reichstag as deputy for Wesser-Ems. He created the Sicherheitsdienst (sick-her-HEITS-deenst) under Heydrich as a means of gaining information on his rivals such as Ernst Rohm, whom he exterminated in June of 1934 in the "Night of the Long Knives," which eradicated the SA. A year earlier he had overseen the construction of Dachau, a concentration camp for political undesirables and Jews. For ten points, identify this Reichsfuhrer of the SS and head of the Gestapo in Nazi Germany.

Answer: Heinrich Himmler
18. Some consider it to be a later part of the Muromachi Period, especially after the death of the Shogun Ashikaga Yoshimitsu. During it, the central government in Kyoto lost its power to local warlords called daimyo, who ruled their own provinces. Powerful lords included Takeda, Uyesugi and Hojo in the East, Ouchi, Mori, and Hosokawa in the West. In 1568, Oda Nobunaga captured the capital of Kyoto and unified Japan, thus ending, for ten points, what century-long period named after its constant battles?

Answer: Warring States Period or Sengoku Jidai (Do not accept Inu Yasha)
19. It explains its author's atheism, by telling how he was never childlike enough to believe in the afterlife. Since the supernatural is unimportant, it instead emphasizes the ordinary, such as climate, meals, and recreation, as well as including all of its author's previous work except for The Antichrist. Subtitled "How One Becomes What One Is," it contains chapters such as "Why I am So Clever", and "Why I Write Such Excellent Books." FTP what is this autobiographical work of Friedrich Nietschze (NEE-chuh), whose title is Latin for "behold the man."

## Answer: Ecce Homo

20. This school called for the removal of restrictions on internal trade and labor migration, the removal of statesponsored monopolies and trading privileges, and the dismantling of the guild system. They believed that the wealth of a nation lay in the size of its net product, as opposed to merely its stocks of gold and silver, and that this net product was only produced through agriculture. For ten points identify this group of French Enlightenment thinkers that formed around the court physician François Quesnay (keh-NAY).

## Answer: Physiocrats

21. According to legend, he would roam the streets of Berlin tearing the clothing of women wearing unnecessary garments and hoping to find citizens who would invite him home to dinner, thus saving the expense from the royal treasury. Only going to war once during his reign, he mopped up against the military genius of Charles XII and secured Stettin and Rügen. He divided Prussia into cantons and developed a recruitment system that created the first truly national army. For ten points, identify this Prussian ruler from 1713 to 1740 , nicknamed the Soldier-King.

Answer: Friedrich Wilhelm (Frederick William) I of Prussia
22. This artist's latest piece is drawn from missing persons posters, internet postings, cell phone calls and other personal artifacts relating to the events of September 11, 2001 and opened the New York Philharmonic's season. Now the composer in residence of Carnegie Hall, most of his work was composed for the San Francisco Symphony including Harmonium and El Nino. Despite his minimalist style, he occasionally writes operas and larger works for large orchestra including Guide to Strange Places and Death of Klinghoffer. For ten points, identify this Massachusetts-born composer of Short Ride in a Fast Machine and Nixon in China.

Answer: John Adams
23. It is considered the birthplace of its nation's navy, and means "fortunate" or "prosperous" city. It is a port city lying on the Min-Jiang river, and has been a prominent city since the 10th century. Located in southeastern China, its proximity to Taiwan is also reflected in its cultural and linguistic ties thereto. In 1842, after the Opium Wars, this city was one of the five ports declared open to foreign trade, and was also the temporary capital of China at the end of both the Song and Ming dynasties. FTP, name this city, once called Minzhou, which is now the capital of the Fujian province.

Answer: Fuzhou
24. In 1994, his risqué Grammy acceptance speech where he flashed the audience and the allegations that he plagiarized the song "Suzanne, you don't have to put on the green light" caused him to be replaced by Eric Estrada, whom his boss had worked with as a Mexican bank robber bandit on CHiPs . He then turned his attention to politics, but his campaign, managed by Calvert Deforest, did not even get into double digit votes against Charles Schumer, probably because he spent much of his time alleging Dukakis had killed four hitchhikers, even though Dukakis was not running for senator of New York. FTP, identify this musical coordinator of Blues Brothers 2000, voice of Hermes on Hercules, and the longtime bandleader for David Letterman.

## Answer: Paul Shaffer

25. While playing for the New York Knicks, his coach Red Holzman barred him from dribbling the ball because of his propensity for receiving fouls and injuries. While coaching the Albany Continental Basketball Association, he gave married players a $25-\mathrm{a}-$ week bonus and divided salaries and playing time equally. After moving up to the big leagues, he was the first coach to win an NBA title while sporting a beard, and is the winningest coach in NBA history with a .738 winning percentage. For ten points, identify this longtime Bulls coach now coaching the LA Lakers.

Answer: Phil Jackson

## Bonuses by Caltech

1. Identify the following concerning the labors of Hercules FTP each.
a) Although Hercules was the rightful ruler of Mycenae, Hera had tricked Zeus into crowning this cousin of his as King.

Answer: Eurystheus
b) Sources vary as to how many heads this monster killed by Hercules had, but all agree that two heads grew to replace each head that was cut off.

Answer: (Lernean) Hydra
c) Hercules' third labor was to capture this deer sacred to Artemis.

Answer: The Cerynitian Hind (accept equivalents)
2. For ten points each, identify these magical realists:
a) His first novel, A Path to the Nest of Spiders, was a critical success, and was followed with crazier and cooler works like Invisible Cities and Cosmicomics.

Answer: Italo Calvino
b) In this author's The Rat, Oskar Matzerath returns as a wealthy 60 ish video producer with a bad prostate.

Answer: Gunter Grass
c) In El muerto and La intrusa this author's work suggests a veiled presence of homoerotic desire in which two male characters physically and emotionally connect to each other through the sexual use of the same woman.

Answer: Jorge Luis Borges
3. Given a computer language, identify what the exclamation mark does for ten points each.
a) C++ and Java

Answer: Boolean (or Logical) Negation or Not
b) FORTRAN

Answer: Comments
c) Visual Basic

Answer: Collection Lookup
4. Identify the following leaders from the Persian wars.
a) This king of Sparta led the 300 victorious troops at Thermopylae.

Answer: Leonidas
b) This was the admiral who defeated the Persian navy at Salamis.

Answer: Themistocles
c) This Persian general was left behind with a sizeable cavalry force which was destroyed by the Spartans at Platea.

Answer: Mardonius
5. Given the verse, identify the book of the Bible from which it is taken FTP each:
a) "Hear O Israel, the Lord our God, the Lord is One."

Answer: Deuteronomy
b) "To everything there is a season and a time to every purpose under the heavens."

Answer: Ecclesiastes
c) "For the Lord so loved the world that he gave his only begotten son."

Answer: The Gospel according to Saint John (not 1 John or 2 John or 3 John)
6. Five points per answer, give the work and author given a very short plot description.
a) Before committing suicide, Mr. Singer, a lonely deaf mute, touches the lives of four misunderstood and isolated individuals.

Answer: The Heart is a Lonely Hunter by Carson McCullers
b) After a car accident, a Florida-bound family's "savior" turns out to be an escaped convict with a connection to the family who kills them all.

Answer: A Good Man is Hard to Find by Flannery O'Connor
c) Laurel McKelva Hand goes to New Orleans to care for her dying father, then returns to her old family home in Mississippi, in the process coming to terms with her family and her past.

Answer: The Optimist's Daughter by Eudora Welty
7. Answer the following related math questions.
a) What Frenchman proved that a simple closed curve divided the plane into two components?

Answer: Camille Jordan
b) If a matrix has a full basis of eigenvectors, then the Jordan normal form has what values for diagonal elements?

Answer: Eigenvalues
c) What theorem, named for Jordan and a German mathematician, states that for any two composition series of a group, an isomorphism exists between the corresponding quotient groups of each series, taken in some specified order?

Answer: Jordan-Hölder Theorem
8. For ten points each, identify these Beat writers:
a) He co-founded San Francisco's City Lights Bookstore, a Mecca for other writers, artists, and activists and publishers. His most famous poetry collection is A Coney Island of the Mind.

Answer: Lawrence Ferlinghetti
b) He is immortalized as Dave Wain in Kerouac's Big Sur. He apparently committed suicide while staying with poet Gary Snyder in Nevada, but his body was never found.

Answer: Lew Welch
c) While imitating William Tell in Mexico, this author of Naked Lunch tried to shoot a glass from the top of his wife's head, killing her with a single shot.

Answer: William S. Burroughs
9. Answer the following questions about optics for ten points each.
a) What type of lens consists of concentric rings of segmental lenses, has a short focal length, and is used primarily in spotlights, overhead projectors, and the headlights of motor vehicles?

Answer: Fresnel (fray-NELL) Lens
b) Fresnel's equations give the ratio of the reflected and transmitted electric field amplitude to initial electric field for electromagnetic radiation incident on what type of material?

Answer: Dielectric
c) This is the angle from the normal at which reflected light will be completely polarized. A means for calculating this value can be derived from Fresnel's Equations.

Answer: Brewster's Angle
10. Answer the following related questions for ten points each.
a) What opera concerns a Spanish noble, Belmonte, who seeks to win the love of Konstanze despite the obstacles put in place by Osmin?

Answer: The Abduction from the Seralgio or Die Entführung aus dem Serail
b) Who composed Abduction from the Seralgio?

Answer: Wolfgang Amadeus Mozart
c) The style of the play is more consistent with a Viennese Singspiel, i.e. a musical where songs only express emotion and don't advance the story. In fact, one major character in the opera doesn't even sing. Who is this character?

Answer: The Pasha
11. For ten points each, name the following works by Charlotte Perkins Gilman.
a) In this feminist utopian novel, three men discover a community of self-sufficient women and must live under the rule of New Motherhood.

Answer: Herland
b) In this story, a woman, restricted to bed rest by her physician, slowly descends into madness.

Answer: The Yellow Wallpaper
c) In this nonfiction work, Gilman argues that gender roles are socially, and not biologically determined. She also maintains that women can only achieve equality when they are fiscally independent.

Answer: Women and Economics
12. Given an annoying creature, give the geologic period in which it would have normally existed FTPE.
a) Barney, assuming he is a Tyrannosaurus Rex born 100 million years ago

Answer: Cretaceous Period
b) Regis Philbin, assuming he is a Human Being

Answer: Quaternary Period
c) Dick Clark, assuming-as modern radioisotope dating suggests-he was born two million years ago.

Answer: Tertiary Period
13. Given the circumstances when a general was shot in the leg, identify the individual FTPE.
a) After losing his leg at the Battle of Groveton, he was shot in his wooden leg by a Union Sharpshooter at Gettysburg. He is often blamed for the Confederacy's loss at Gettysburg for not taking the initiative and seizing Cemetery Hill.

Answer: Richard Ewell
b) A statue commemorating this man's leg stands at Saratoga. His entire body is not celebrated because of his later actions.

Answer: Benedict Arnold
c) He took over the corps at Chickamauga when Longstreet assumed command of the Confederate left wing. During the battle, he was shot in the leg and he went to Richmond to recover after his leg was amputated.

Answer: John Bell Hood
14. Given an influential work by an economist, give the economist on a 10-5 basis.

10: The New Industrial State
5: The Affluent Society
Answer: John Kenneth Galbraith
10: Critique of the Gotha Program
5: Das Kapital
Answer: Karl Marx
10: Capitalism and Freedom
5: A Monetary History of the United States
Answer: Milton Friedman
15. Identify the following Stoics FTP each.
a) The founder of Stoicism, his teachings at the stoa poikile gave the philosophy its name.

Answer: Zeno of Citium
b) He arrived in Rome as a slave and studied under Musonius Rufus. The Discourses commonly attributed to him may have been writen by Flavius Arrian.

Answer: Epictetus
c) This emperor's Meditations frequently quote those of Epictetus.

Answer: Marcus Aurelias Antoninus
16. Identify the following organelles from their physiological functions for ten points each.
a) Embryonic hands are attached via webbing, but these organelles release enzymes that digest the webbing, resulting-in most people-in differentiated fingers.

Answer: Lysosomes (do not accept lysozymes)
b) This series of interconnecting flattened tubular tunnels detoxify incoming proteins, produce steroids, and store calcium in skeletal muscle cells.

Answer: Endoplasmic Reticulum
c) Consisting of a large and small sub-unit, this organelle can be found embedded in rough ER but not smooth ER.

Answer: Ribosome
17. For ten points each, given a position and an individual in the Soviet leadership, identify the individual that directly succeeded him.
a) Khrushchev, as General Secretary of the Communist Party

Answer: Leonid Brezhnev
b) Andrei Gromyko, as Chairman of the Presidium of the Supreme Soviet

Answer: Mikhail Gorbachev
c) Yuri Andropov, as General Secretary of the Communist Party

Answer: Constantine Chernenko
18. Identify the dramatist from works, 30-20-10.
30) Candles to the Sun, Clothes for a Summer Hotel
20) Suddenly Last Summer, Night of the Iguana
10) Cat on a Hot Tin Roof, A Streetcar Named Desire

Answer: (Thomas Lanier) Tennessee Williams
19. Given a current (as of Christmas 2002) member of the government, identify the first individual to hold the same post, FTPE.
a) John Ashcroft

Answer: Edmund Jenings Randolph (Attorney General)
b) Colin Powell

Answer: Thomas Jefferson (State)
c) Tommy Thompson

Answer: Patricia Roberts Harris (Health and Human Services)
20. Answer the following questions about the artist Jean-Antoine Watteau.
a) Watteau is considered the master of what technique, literally meaning "placement on page" that concerns the arrangement of figures within a painting?

Answer: mise en page
b) Watteau introduced this, a scene of an elegant, festive occasion in an open-air setting, depicting dancing, musicals, comedy, etc. which became a specialty of French rococo art.

Answer: Fête galante
c) What fête galante work by Watteau, now in the Louvre, depicts a party headed for the southernmost of the Ionian islands?

Answer: Embarkation to Cythera or l'Embarquement de Cythere
21. Given a nation, identify the nation it shares the longest and shortest international border (respectively) with for five points per answer.
a) Namibia

Answer: Angola, Zambia
b) Russia

Answer: Kazakstan, North Korea
c) Indonesia

Answer: Papua New Guinea, East Timor
22. Identify the sports team on a 30-20-10 basis. (Give the team name, not the city.)
30) The team started out as the Cougars in 1926 while playing home games in Windsor and had the league's worst record in the 1926-27 season, after which Jack Adams came on as the team's coach and general manager.
20) It played in Olympia stadium until the 1980, when it moved to Joe Louis arena. Two years later, the Norris family sold the franchise to Marian Ilitch, the owner of Little Caesar's Pizza.
10) This franchise's recent teams have been coached by Scotty Bowman (now retired) and captained by Steve Yzerman (EYE-zer-man).

Answer: Detroit Red Wings (do not prompt on Detroit)

