

**Cardinal Classic XIII: The Legend of Zwarte Piet**  
**Round 8**

**Packet by Pomona B (Derek Wilairat)**

**Toss-Up Questions**

1. From 1975 to 1979, they undertook their program of mass extermination of all skilled workers and intellectuals and of forced evacuation of cities for collective farms, a process in which approximately 1.5 million peoples were killed, starved, or worked to death. North Vietnam had initially backed this political faction, helping them to overthrow the existing Cambodian government in 1975. FTP, name this group of Cambodian Communists led by Pol Pot.

Answer: the Khmer Rouge

2. This collection of short stories features "Counterparts", in which a man beats his son after a bad day at work, and "Araby", in which a boy goes to a bazaar to buy a present for a girl he likes. "A Painful Case" is about a reclusive man who breaks off his relationship with a married woman after she touches him. In the most famous story, "The Dead", a man hears a sad story from his wife's childhood after a holiday dinner party. FTP, name this famous collection, in which every story includes a moment of epiphany, written by James Joyce.

Answer: Dubliners

3. The conversations between the central character and his servant closely adhere to the conventions of Noh theatre, and the servant's mocking song-dance evokes Kabuki dance drama. Earlier in the movie, the loyal Saburo is banished, leading to an intense rivalry between Taro and Jiro, fueled by their petty, power-hungry wives. The main character, Hidetora, wanders the sand dunes going slowly insane after unsuccessfully trying to divide his kingdom among his three sons. FTP, name this Akira Kurosawa film which is an adaptation of *King Lear*.

Answer: Ran [pronounced "rahn"]

4. The most common and stable type of this enzyme evolves very slowly, making it useful in phylogeny for comparing species based on differences in their protein sequences for it. The  $b$ ,  $c_1$ ,  $c$ ,  $a$ , and  $a_3$  types act in sequence between ubiquinone and molecular oxygen in the respiratory chain of cellular metabolism. FTP, identify this hemoprotein pigment whose  $b$  and  $f$  types, complexed with an iron-sulfur protein in light reaction I (one) of photosynthesis, oscillate between the  $Fe^{2+}$  and  $Fe^{3+}$  oxidation states while acting in the electron transport chain.

Answer: cytochromes

5. A. C. Swinburne called him "The greatest song-writer ever born of English race." His principle work, the *Hesperides*, contains 1200 short poems, many of which deal with English country life and village customs. Among the best examples are "The Argument of His Book," "Corinna's Going A-Maying," and "Upon Julia's Clothes." FTP, name this Cavalier poet who wrote "Gather ye rosebuds while ye may ...", the first line of his "To the Virgins, to Make Much of Time."

Answer: Robert Herrick

6. Although born in Germany in 1497, for most of his short life he lived in Switzerland and England, where he became rich and famous for his detailed, realistic portraits. His portrait of Sir Thomas More is famous for its rich rendering of velvet clothing. His *The French Ambassadors* features a skull that protrudes out of the ground at an angle. FTP, name this portrait painter, who realistically portrayed as overweight his patron, King Henry the Eighth.

Answer: Hans Holbein the Younger

7. Members of this phylum are the simplest animals which are triploblastic and bilaterally symmetrical. Because they have only one body cavity, the gut, they must both take in food and expel waste through their mouth. Because they lack a coelum, all of their cells must be located near a surface so they can respire by diffusion, making them flat. FTP, name the phylum which contains tapeworms, flukes, planarians, and all other flatworms.

Answer: platyhelminthes

8. From his exile in Tomis on the Black Sea, he wrote a series of melancholy poems called the *Tristia*, some of which beg the Roman emperor Augustus to pardon him. He had earned the emperor's disfavor by writing the

scandalous *Ars Amatoria*, a book written in elegiac couplets which gave advice to young men and women on how to succeed as a lover. FTP, name this Roman poet, who also wrote the *Heroide*, and *Amores*, most famous for the *Metamorphoses*.

Answer: Publius Ovidius Naso

9. In 1570, he was imprisoned by the Inquisition for casting a horoscope of Christ. This eccentric Renaissance mathematician spent much of his youth using his studies of probability to make money gambling. Although the most celebrated medical doctor of his time, he became an outcast after his eldest son was tortured and executed after being convicted of poisoning his wife. FTP, name the mathematician who, in his *Ars Magna*, published systematic solutions to cubic and quartic equations.

Answer: Girolamo Cardano

10. It features Quartz Extreme, an upgrade to the composited windowing system Quartz, Rendezvous, which facilitates the creation and use of networks, and iChat, a user-friendly instant-messaging application. In addition, this upgrade provides many other noticeable tweaks and fixes which polish the original version of this UNIX-based operating system. FTP, give the name (or the "code name") of Apple's first major upgrade for Mac OS X.

Answer: Mac OS 10.2 or Mac OS X version 10.2 or Jaguar

11. On January 9, 2003, Guard Mark Jackson, playing for this team, recorded his ten-thousandth career assist. This current season, Russian Forward Andrei Kirilenko and newcomer Matt Harpring have put a charge into this team, which plays its home games in the Delta Center. FTP, name this NBA franchise whose core is still coach Jerry Sloan and aging stars John Stockton and Karl Malone.

Answer: Utah Jazz (accept either name)

12. It argued that the farmers of the Western and Southern states and New England manufacturers formed a natural and interdependent economic unit that would furnish markets for each other, if they were connected with good transportation facilities funded by money received from the sale of federal lands. It also called for high protective tariffs to encourage the growth of American industry. FTP, name this economic plan, an important part of the early political agenda of the Whig Party, whose greatest proponent was Henry Clay.

Answer: the "American System"

13. This prolific composer wrote nearly 300 religious and secular cantatas, including "Ein feste burg ist unser Gott." He was celebrated in his time as a virtuoso organist, but his many compositions were generally ignored until long after his death. While director of music at the court of Anhalt-Cothen, he completed his first set of preludes and fugues for harpsichord, *The Well-Tempered Clavier, Book 1*. FTP, name this German Lutheran who is regarded as the greatest composer of the baroque period.

Answer: Johann Sebastian Bach

14. While this Greek hero was staying with King Proetus, the King's wife, Stheneboea, tried to seduce him. After he rejected her advances, she accused him of trying to seduce her. When Proetus heard this from his wife, he sent the hero to King Iobates to deliver a letter which requested that Iobates have him killed. Iobates decided to fulfill this request by sending him on seemingly impossible missions. FTP, name the hero who was able to succeed in every mission Iobates came up with, including slaying the Chimera, with the help of Pegasus.

Answer: Bellerophon

15. Besides being one of the greatest oil-producing regions of North America, it grows more barley and oats than any other Canadian province or state of the United States. Besides being rich in resources, the natural beauty of its national parks, such as Banff, Jasper, and Waterton Lakes. FTP, name this province of mountains and plains, the westernmost Prairie province, whose most populous city is Calgary, and whose capital is Edmonton.

Answer: Alberta

16. The only pitcher ever to have 300 wins in the majors and 100 in the minors, he led the International League in strikeouts four years in a row and then the American League the next seven years in a row, for a ridiculous 11 consecutive strikeout titles. His 9 ERA titles are an all-time record, and though he pitched before the advent of the Cy Young Award, he was named 1931 AL MVP while with the Philadelphia A's. FTP, who was this pitcher born with the names Robert Moses, but better known as "Lefty"?

Answer: Robert Moses “Lefty” Grove

17. Early in his political career, this French politician was an advocate for the rights of colored people and opposed the death penalty. By 1794, his increasing fanatical obsession with his own conceptions of virtue and purity led him to be known as “the incorruptible” and drove him to advocate a new state religion based on worship of the “Supreme Being” while he arranged for the guillotining of Danton and his supporters. FTP, name this Jacobin, who was the leading member of the Committee of Public Safety until he was guillotined in July of 1794.

Answer: Maximilien Marie Isidore de Robespierre

18. In its foam form, it is extremely light, consisting of roughly 95% void space formed by the injection of pentane or carbon dioxide. In its solid form, it is strong and often completely amorphous in structure, making it transparent. These properties make this polymer consisting of a polyethylene backbone with phenyl groups on every other carbon ideal for both CD jewel cases and coffee cups. FTP, identify this common plastic, marketed by DuPont as styrofoam.

Answer: **polystyrene** (prompt on styrofoam before it is read)

19. A hilly, curved peninsula extends from the southwestern portion of this island. Northeast of this peninsula is the Ishikari Plain, the island’s largest lowland and chief agricultural region. Much of its terrain consists of forested mountains and hills. The largest population of the Ainu ethnic group can be found here. FTP, name the northernmost and second-largest island in the Japanese archipelago.

Answer: Hokkaido

20. His stories “The Shot” and “The Blizzard,” among others, are collected in his *Tales of Belkin*, and his “Little Tragedies” include *Mozart and Salieri* and *The Stone Guest*. He also wrote the novella *The Captain’s Daughter* and the poem “The Bronze Horseman,” and was equally fluent in every literary genre. In fact, he even invented one of his own, the novel in verse. His death in an 1836 duel inspired Lermontov’s “Death of a Poet.” FTP, name this Russian poet, author of *Boris Gudonov* and *Eugene Onegin*.

Answer: Aleksandr Sergeevich Pushkin

21. He is sometimes called a Pop Artist, but in reality, he dabbled in so many different genres that his paintings as a whole defy a single classification. He is perhaps best known for his photo-realism based on images clipped from amateur photography, magazines, and advertisements. FTP, name this German artist, whose most famous work is a series of paintings based on photographs of the Baader-Meinhof terrorist group.

Answer: Gerhard Richter

22. This 53 B.C. battle was won by superior Parthian strategy and battle tactics. The efforts of the Roman cavalry to fight off mounted archers were stopped by the heavily armored Parthian cataphracts. 20,000 Romans died and 10,000 were taken prisoner in the Mesopotamian desert, making it one of the greatest defeats in Roman history. FTP, name this battle, after which the victorious Parthians poured gold down the throat of the losing Roman general, Marcus Licinius Crassus.

Answer: the Battle of Carrhae

23. He was born in Colorado in 1935 to a religious Christian family. However, his chemical experimentation while studying creative writing at Stanford changed his life. From then on, drug-induced experiences served as major inspirations for his writing. His second major novel, *Sometimes a Great Notion*, takes place in Oregon, just like his most famous work, *One Flew Over the Cuckoo’s Nest*.

Answer: Ken Kesey

24. A weak judge of character, his presidency was marked by the widespread corruption of his administration. It is believed that the stress of dealing with the scandals contributed to his poor health while he was president, and possibly even his death while in office. There was even scandal after his death, however, when his wife Florence suspiciously burned most of his correspondence. FTP, name this 1920’s president whose term was not the return to “normalcy” he had promised.

Answer: Warren G. Harding

25. These famous verses are found in both the gospel of Matthew and the gospel of Luke. The two versions, while significantly different, both promise rewards for the downtrodden. In Luke, Jesus speaks them at the Sermon on the Plain, in Matthew, he speaks them at the Sermon on the Mount. The first of these in Matthew is "Blessed are the poor in spirit: for theirs is the Kingdom of heaven." FTP, give their collective name, which comes from the Latin for "blessed", *beatus*.

Answer: the beatitudes

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### Bonus Questions

1. Identify the rappers from songs, FTPE, or 5 points if you need easier clues.
  - a) (10 points) "Bad Intentions", "Been There Done That"  
(5 points) "The Next Episode", "Still D.R.E."  
Answer: Dr. Dre or Andre Young
  - b) (10 points) "Ether", "Hate Me Now"  
(5 points) "Got Ur Self a Gun", "One Mic"  
Answer: Nas or Nasir Jones
  - c) (10 points) "Sing for the Moment", "Kim", "Under the Influence"  
(5 points) "The Way I Am", "White America", "Stan"  
Answer: Eminem or Marshall Mathers
2. Name these works about Sherlock Holmes FTPE.
  - a) Chapters from this Sherlock Holmes novel include "The Stapletons of Merripit House" and "Death on the Moor."  
Answer: The Hound of the Baskervilles
  - b) In this famous story from *The Adventures of Sherlock Holmes*, Dr. Grimesby Roylott gets a taste of his own medicine when Holmes sends his pet back through the fake ventilation shaft.  
Answer: The Speckled Band
  - c) In this story from *The Memoirs of Sherlock Holmes*, a famous racehorse has disappeared, and its trainer has been found dead, killed by a blow to the head.  
Answer: Silver Blaze
3. Name the following books of the Bible based on descriptions FTPE.
  - a) This book presents Jesus as the eternal Word of God, beginning "Before the world was created, the Word already existed; he was with God, and he was the same as God."  
Answer: The Gospel according to John
  - b) This book, dedicated to Theophilus, is a continuation of Luke's gospel.  
Answer: Acts of the Apostles
  - c) This book continues the history of the Israelite monarchy begun in the books of Samuel.  
Answer: 1 Kings or The First Book of Kings
4. Give the common name of the bird based on descriptions FTSNOP.
  - a) (5 points) This owl has a distinctive white heart-shaped face with dark brown eyes.  
Answer: Barn Owl
  - b) (5 points) This small brown owl preys on prairie dogs, and is known to take over their dens.  
Answer: Burrowing Owl
  - c) (10 points) This noisy scavenger is dark blue with a black crested head.  
Answer: Steller's Jay
  - d) (10 points) California's state bird, it has a short black plume curving forward from its crown.  
Answer: California Quail
5. Name these Baroque painters FTPE.
  - a) His paintings are known for their vast scale, brilliant colors, emotional intensity, such as in *The Lion Hunt* and *Battle of the Amazons*. They are also known for his depictions of very rotund women, such as in *The Landing at Marseilles*.  
Answer: Peter Paul Rubens
  - b) This leader of the Haarlem school was known for his comic portraiture, such as *Mad Babbe*, *Balthasar Coymans*, and the unidentified young subject of *The Laughing Cavalier*.  
Answer: Frans Hals
  - c) This Dutch painter began as an assistant to Rubens but, wishing to escape from his master's shadow, traveled to Antwerp and Genoa before settling in London, where he became court painter to Charles I.  
Answer: Anthony van Dyck

6. Answer the following questions about the War of 1812 FTPE.

- a) In this great American triumph the British marched into Andrew Jackson's earthwork defenses and suffered 2,000 casualties, while the Americans suffered less than 100.

Answer: The Battle of New Orleans

- b) This Shawnee chief, who led a confederation of united Indian tribes, was killed at the Battle of the Thames.

Answer: Tecumseh

- c) Considered by many to be the turning point of the war, in this battle Oliver Perry destroyed a major British fleet.

Answer: Battle of Lake Erie

7. Given an NFL team, name that team's 2002 leader in receptions FTPE.

- a) New Orleans Saints

Answer: Joe Horn

- b) Kansas City Chiefs

Answer: Priest Holmes

- c) Cincinnati Bengals

Answer: Chad Johnson

8. Name the polyatomic anion FTPE.

- a) Its compounds with the  $\text{Ca}^{2+}$ ,  $\text{Sr}^{2+}$ ,  $\text{Ba}^{2+}$ ,  $\text{Ra}^{2+}$ ,  $\text{Ag}^+$ , and  $\text{Pb}^{2+}$  cations are all insoluble while its compounds with all other common cations are soluble.

Answer: Sulfate ( $\text{SO}_4^{2-}$ )

- b) Its chemical formula is  $\text{SCN}^-$ .

Answer: Thiocyanate

- c) Its chemical formula is  $\text{ClO}_2^-$ .

Answer: Chlorite

9. Given a European city, name the major river flowing through it FTPE.

- a) Kiev

Answer: Dnieper

- b) Florence

Answer: Arno

- c) Bratislava

Answer: Danube (or Dunaj)

10. Given a famous quote from Shakespeare, name the speaker FTPE.

- a) "Lord, what fools these mortals be!"

Answer: Puck or Robin Goodfellow (*A Midsummer Night's Dream*)

- b) "Once more unto the breach, dear friends, once more."

Answer: Henry V

- c) "If you prick us, do we not bleed? If you tickle us, do we not laugh? If you poison us, do we not die? And if you wrong us, shall we not revenge?"

Answer: Shylock (do not accept *The Merchant of Venice* since the title refers to Antonio)

11. Identify the literary figure who presents a pessimistic view of human nature FTPE.

- a) This English novelist's *The Inheritors*, set in prehistoric times, deals with the same themes of savagery and brutality as his most famous work.

Answer: Sir William Golding

- b) This American poet graduated from Occidental College and lived in Carmel, California. He is best known for his poetry collections *Tamar*, *Roan Stallion*, and *Dear Judas* and an adaptation of Euripides's tragedy *Medea*.

Answer: Robinson Jeffers

- c) In contrast to Dr Pangloss, this character from *Candide* espouses a distinctly pessimistic philosophy. After a lengthy debate between him and Pangloss, Candide decides that philosophy is useless compared with gardening.

Answer: Martin



12. Answer the following questions about the Krebs cycle FTPE.

- a) This two-carbon compound reacts with oxaloacetate to form citrate in the first step of the Krebs cycle.  
Answer: acetyl-CoA
- b) Besides NADH, what other energy-molecule is formed by a redox reaction during the Krebs cycle?  
Answer: FADH<sub>2</sub>
- c) The reduction of FAD to FADH<sub>2</sub> accompanies conversion of succinate to what organic molecule which features a carbon-carbon double bond?  
Answer: fumarate

13. Answer the following questions about the Hittites FTPE.

- a) At this 1285 B.C. battle, the Hittites fought an indecisive battle against the Egyptians under Ramses II, which ended Hittite expansion southward.  
Answer: Kadesh
- b) This man was the leader of the Hittite forces at Kadesh.  
Answer: Muwattallis
- c) Located just east of Ankara, this was the capital of the Hittite empire.  
Answer: Hattusas

14. Answer the following questions about the Oregon Trail FTPE.

- a) Pioneers started their journey at this Missouri town.  
Answer: Independence
- b) Their journey ended by traveling along or rafting down this river.  
Answer: the Columbia River
- c) Name any one of the major forts the pioneers stopped at on their way to Oregon.  
Answer: Fort Kearny, Fort Laramie, Fort Hall, Fort Bridger, Fort Boise, Fort Vancouver

15. Answer the following questions about the hunting hypothesis of human evolution.

- a) Early proponents of the hunting hypothesis believed this primitive hominid from southern Africa was a bloodthirsty "killer ape."  
Answer: Australopithecus africanus (prompt on partial answer)
- b) This Australian anatomist discovered *Australopithecus* with the bones of wildebeest, zebra, and other big game. He immediately hypothesized that the man-ape had killed these animals.  
Answer: Raymond Dart
- c) This Nobel-laureate zoologist argued that humans fight each other because their means of killing, artificial weapons, did not evolve slowly over time, and so natural inhibitions which prevent the self-destruction of the species did not evolve.  
Answer: Konrad Lorenz

16. Answer the following questions related to Russian peasants FTPE.

- a) As Russian premier and minister of the interior for Czar Nicholas II from 1906 to 1911, he attempted to create a class of conservative peasant landowners who would be loyal to the czar.  
Answer: Piotr Arkadevich Stolypin
- b) Stolypin attempted to curb the peasant unrest which had been building ever since this czar's 1861 edict freed the serfs.  
Answer: Alexander II
- c) Established by Alexander II, these local assemblies functioned as bodies of provincial self-government in Russia until 1917.  
Answer: zemstvos

17. Give the following from vector calculus FTPE.

- a) For a scalar function, this vector is defined in Cartesian coordinates as having each component equal to the partial derivative in that direction.  
Answer: gradient
- b) If a vector field  $V$  can be expressed as the gradient of some scalar  $U$ , then what is the value of the line integral of  $V$  from point  $a$  to point  $b$ ?  
Answer:  $U$  of  $b$  minus  $U$  of  $a$  (or equivalent)

- c) This second-order differential operator is defined as the divergence of the gradient.  
Answer: Laplacian

18. Answer the following questions about the geography of Papua New Guinea FTPE.

- a) Located on the island of New Guinea, this is the country's capital and largest city.  
Answer: Port Moresby
- b) After New Guinea, this is the second largest island in the country.  
Answer: New Britain
- c) Which country controls the other half of the island of New Guinea?  
Answer: Indonesia

19. Name the jazz musician from songs he or she performed FTPE.

- a) "It Don't Mean a Thing", "Echoes of Harlem", "Cotton Tail", "Take the 'A' Train"  
Answer: Duke Ellington
- b) "Epistrophy", "Straight, No Chaser", "Blue Monk"  
Answer: Thelonious Monk
- c) "Jumpin' At the Woodside", "Sent for You Yesterday and Here You Come Today", "Lester Leaps In"  
Answer: Count Basie

20. Name the Romantic poet from works FTPE, or 5 points if you need easier clues.

- a) (10 points) "Hyperion", "Lamia"  
(5 points) "On a Grecian Urn", "On Melancholy"  
Answer: John Keats
- b) (10 points) *Idylls of the King* and *Poems, Chiefly Lyrical*  
(5 points) *In Memoriam*  
Answer: Lord Tennyson
- c) (10 points) "The Sphinx", "Hamatreya"  
(5 points) "The Rhodora", "The Snowstorm", "Brahma"  
Answer: Ralph Waldo Emerson

21. Answer the following questions about the Khmer Empire FTPE.

- a) In what modern day country was the heart of the Khmer Empire located?  
Answer: Cambodia
- b) In the 12th century, the elaborate temple Angkor Wat was constructed by this Khmer king.  
Answer: Suryavarman II
- c) In what century did the Thai sack the Khmer capital Angkor, marking the end of a long period of Khmer ascendancy in Southeast Asia?  
Answer: 15th century (exact year 1434)

22. Answer the following questions about the sitcom *Frasier* FTPE.

- a) The series takes place in this city.  
Answer: Seattle
- b) This actor plays Frasier's brother, Dr. Niles Crane.  
Answer: David Hyde Pierce
- c) This is the man whom Daphne was going to marry before Niles stole her.  
Answer: Donny Douglas