

CARDINAL CLASSIC XII: Beware the Esker  
Stanford University  
February 2, 2002

Packet by Wisconsin (2)

Toss-Up Questions

1. Featured in this poem is the half-human, half-satyr known as Satyrane, considered "nature's knight." Book III discusses the trials of the female virgin warrior (\*) Britomart, who loves Arthegall. Book I of this poem is certainly more famous, and discusses the villains Archimago and Duessa and the heroes Una and the Redcrosse Knight. FTP, identify this 1590 epic poem by Edmund Spenser.

Answer: *The Faerie Queen*

2. A drug known as brefeldin A prevents the transfer of proteins to this organelle. Lysosomes are sorted in the acid phosphatase-rich area known as the (\*) trans region, while the opposite area, rich in lipid-bearing membranes, is called the cis region. Between these two ends are various cisternae, or flattened sacs that assist in sorting and packaging proteins. FTP, identify this cell organelle named after an Italian scientist.

Answer: Golgi complex or apparatus

3. It makes use of only three major colors: red, black, and white, with hints of blue near the edges. Three vertical bars appear at the top, with another bar being aimed at the main figure by a stick figure on the right. That main figure is a white face whose features spell the German word for death. (\*) FTP, name this Paul Klee painting whose name is derived from the main figure and the red background.

Answer: *Death and Fire*

4. This program originally authorized an appropriation of \$1 million and was later incorporated into the State Department. It empowered FDR, despite the USA's proclaimed neutrality, (\*) "to sell, transfer title to, exchange, lease, lend, or otherwise dispose of, to any such government any defense article." FTP, identify this program that allowed the US to send military implements to the Allies during WWII.

Answer: Lend-Lease program

5. The only other named character in this drama besides the main character is the clerk who sells him the title object. (\*) The main character lived for little else besides copying, and sought no higher office, though his life changes when he finds himself purchasing the title object. He dies after it is stolen and haunts the streets of St. Petersburg. Centering on Akakii Akakievich, FTP, name the short story by Nikolai Gogol.

Answer: *The Overcoat* or *Shinel*

6. A twelve kilobase RNA genome is responsible for this disease, which carries 5 genes that encode for 5 proteins: N, P, M, G, and L. The virus is known as rhabdovirus (\*) and infects many mammals, causing fever, cerebral dysfunction, delirium, and the characteristic foaming at the mouth. Once called hydrophobia, FTP, identify this disease that one often gets from mad dogs.

Answer: rabies

7. In the German push to the English Channel in 1940 he headed the victorious 7<sup>th</sup> Tank Division. A year later he was made a lieutenant general and given his most famous position, during which he drove the (\*) British from Libya to El 'Alamein by June 1942, where he was defeated by British General Montgomery. FTP, identify this Nazi leader of the Afrika Korps nicknamed the "Desert Fox."

Answer: Erwin Rommel

8. Because one of its effects is to increase a country's exports, neighboring countries must do it also in order to compete. One major danger is that the resulting increase in demand for domestic goods will increase inflation, (\*) or push up interest rates, slowing economic growth. FTP, identify the economic term for the process in which one currency's value is intentionally reduced.

Answer: devaluation

9. They met in 1993 at the Good Life in Los Angeles when they were part of the groups Rebels of Rhythm and Unity Committee. Their first single released that year was "Unified Rebelution." (\*) They then released a self-titled EP in 1997, and a hit album in 2000. Oh, and there are actually six of them (four MCs and two DJs and producers), but who's counting? FTP, name the crew that released the album *Quality Control* in 2000.

Answer: Jurassic 5

10. Different myths list his mother as either Clymene or Asia, and he is sometimes represented as king of a district in Northwest Africa. Grandfather to Hermes via his daughter Maia, (\*) he took part in the Titans' war against Zeus along with his father Iapetus, but not his brother Prometheus. FTP, name this figure who is apparently not so bright, being tricked by Herakles into taking back his burden of holding up the sky.

Answer: Atlas

11. This novel triggered a series of fashionable suicides upon its 1774 publication. The title character writes letters to his friend Wilhelm, in which he outlines his newfound love for a woman already engaged to a secretary named (\*) Albert. His relationship with Lotte grows until Albert returns and the protagonist flees. Finally, he returns in desperation only to be rejected by the now married Lotte and kills himself. FTP, identify this sorrowful work by Goethe.

Answer: The Sorrows of Young Werther or Die Leiden des jungen Werther

12. There are two types of calculations for this quantity: the Mullikan value and the more famous (\*) Pauling value. Across the Periodic Table, this value increases from left to right and from bottom to top, which agrees with the trend that fluorine carries the highest value of this quantity. FTP, identify this property of an atom defined as the ability to attract electrons.

Answer: electronegativity

13. The son of Yaroslav II of Vladimir, he denounced his younger brother Andrew to the Mongols as a traitor. It was as grand prince that he had won his greatest victories, including a defeat of the Teutonic Knights near Lake Chud (\*) in what became known as the "Massacre on the Ice," and another battle which earned him his byname. FTP, name this ruler of Novgorod whose victory over the Swedes took place near the Neva River.

Answer: Alexander Nevsky

14. It's not cherry, but various terms in it include "Frozen", "Pure-Natural", "Black Three", and "Red Three." (\*) Gameplay is similar to rummy. Developed in Uruguay and played with a 108-card deck containing 4 50-point jokers, name this card game, or FTP, just give the Spanish word for basket.

Answer: canasta

15. Its immediate antecedents were the *ricercare* and the *canzona*, and organist-composers such as Dietrich Buxtehude developed it. (\*) It is a musical composition where a melodic form is subjected to systemic melodic imitation. Name this musical form, FTP, an example of which is J. S. Bach's *The Well Tempered Clavier*.

Answer: fugue

16. Imprisoned multiple times in the Tower of London after being accused of having an affair with Anne Boleyn (\*) as well as on charges of high treason, he was saved on at least one occasion by his friend the Earl of Surrey. His poetry, including "They flee from me" and "My lute, awake!" has been criticized for irregular rhythm. FTP, identify the man who, in translating Petrarch, brought the sonnet to England.

Answer: Sir Thomas Wyatt the Elder

17. It was first written in 1834 by Emil Clapeyron. It only works for perfect situations, and was supplanted in the mid-20<sup>th</sup> century by the van der Waals (\*) equation, which takes into account the kinetic attractions of the molecules in a gas. Basically, this law can be derived by multiplying the basic kinetic gas laws together. FTP, identify this gas law that relates pressure, volume, temperature, number of moles, and the universal gas constant.

Answer: ideal gas law

18. While in Vienna in 1884 he studied under Franz Brentano, writing his dissertation on the *Philosophy of Arithmetic*. Other works of this philosopher include *On the Concept of Number* (\*) and *Logical Investigations*, in which he purported his description and study of appearances, placing an emphasis on human experience. FTP, identify this German philosopher and major proponent of phenomenology.

Answer: Edmund Husserl

19. In January 2002, this man was reprimanded by the United Nations for interfering in judicial investigations against him. These investigations focused on tax fraud involving his share of a Spanish media company, alleged bribery that prevented a rival from buying the state-owned food company SME, and bribes linked to former Prime Minister Bettino Craxi. FTP, name this current Prime Minister of Italy.

Answer: Silvio Berlusconi

20. Their founder was a priest in the Spanish diocese of Osma who accompanied the bishop on a missionary journey to the Cathars of southern France. There, he founded a convent at Prouille, (\*) and later he won papal approval for the foundation of a new religious order to convert the Albigensians. Albertus Magnus and Thomas Aquinas were famous members. FTP, name this mendicant order known as the Black Friars.

Answer: Dominicans

21. Samuel Johnson was impressed by its four stanzas beginning "Yet even these bones." The three-stanza epitaph ends with the lines, "There they alike in trembling hope repose,/ The bosom of his father and his God." The opening includes the tolling of a bell and description of a church tower. FTP, name this most famous poem by Thomas Gray.

Answer: Elegy Written in a Country Churchyard

22. The path this particle traces in a Minkowski diagram is a straight line at 45 degrees. (\*) It is a boson with a spin of 1 and bears a neutral charge. This massless particle, a lepton, was described in detail in Einstein's 1905 paper on the photoelectric effect, where a metal discharged an electron after absorbing this particle. FTP, identify this fundamental particle that carries the electromagnetic force, the particle that carries light.

Answer: photon

23. The son of Frederick Louis, Prince of Wales, he suffered from porphyria and delirium later in life. He chose able prime ministers such as Frederick North, (\*) who served from 1770-1782, and the famed William Pitt. He became famous for his no nonsense policies with the American colonists. FTP, identify this British king that ruled during the American Revolution.

Answer: George III

24. It has featured such hockey legends as Bill Barber, Reggie Leach, and Bobby Clarke - the infamous LCB line - as well as Bernie Parent, (\*) who set goaltending records in games and games won in the 1973-74 season, the same year this team won it's first Stanley Cup. Currently featuring such stars as Mark Recchi and Roman Cechmanek, this is, FTP, what perennial NHL power currently trying to adjust to the trade of Eric Lindros?

Answer: Philadelphia Flyers (accept either)

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**Bonus Questions**

1. Identify the following about Russian literature FTPE.

- a) Over 500 characters populate this novel covering the years from 1805 to 1820. It centers on Napoleon's invasion of Russia in 1812.

Answer: War and Peace

- b) This main character of the novel ranks as one of Tolstoy's greatest achievements. She exemplifies the instinctual approach to life as she progress from girl to wife and mother.

Answer: Natasha Rostova (accept either)

- c) Name either of the main male characters, the first is engaged to Natasha but loses her to Anatol Kuragin. The second becomes her husband after the war.

Answer: Prince Andrey Bolkonsky (accept either) or Pierre Bezukhov (accept either)

2. Given a polyatomic ion, identify its charge FTPE. Note that you must specify positive or negative.

- a) nitrate

Answer: -1

- b) carbonate

Answer: -2

- c) ammonium

Answer: +1

3. Name the following about the founding of the Roman Republic FTPE.

- a) This traditional last king of Rome is said to have murdered his predecessor, Servius Tullius.

Answer: Lucius Tarquinius Superbus or Tarquin the Proud

- b) This first consul is said to have ordered the execution of his sons when they sought to restore the Tarquins.

Answer: Lucius Junius Brutus

- c) Immediately following the fall of Tarquin, Rome was attacked by this king of Clusium.

Answer: Lars Porsenna

4. Identify these American authors who won the Nobel Prize in Literature from works FTPE.

- a) *Sula; Beloved; The Bluest Eye*

Answer: Toni Morrison

- b) *Arrowsmith; Elmer Gantry; Main Street*

Answer: Sinclair Lewis

- c) *As I Lay Dying; Light in August*

Answer: William Faulkner

5. Identify these laws of physics from descriptions FTPE.

- a) There is a conservation of mass and energy in the universe.

Answer: first law of thermodynamics

- b) These three laws dictate the motion of the planets, stating that planets travel in ellipses around the sun and that the square of the area of the ellipse is proportional to the cube of the period of rotation.

Answer: Kepler's laws of planetary motion

- c) Named after a famous French scientist of the 17<sup>th</sup> century, this law states that a liquid exerts equal pressure in all directions as it flows through a pipe.

Answer: Pascal's law

6. Name the following about the English Civil War FTPE.

- a) The war began in 1642 when King Charles I sought to arrest five members of the Parliament with this nickname.

Answer: Long Parliament

- b) In 1648 this colonel expelled all but 60 members of the Long Parliament, with the rest being known as the Rump Parliament.

Answer: Thomas Pride

- c) After the final dissolution of the Long Parliament in 1660, a new Parliament known as this convened to negotiate for the restoration of King Charles II.

Answer: Convention Parliament

7. Answer the following questions about the philosophical career of Leibniz FTPE.

- a) Leibniz wrote "New Essays Concerning Human Understanding" as a point-by-point counter to this man's "Essays" which had appeared earlier in 1690.

Answer: John Locke

- b) Among the many intellectuals with whom Leibniz corresponded often was this fellow Rationalist who sent him his *Tractatus Theologico-Politicus*.

Answer: Baruch (or Benedict) Spinoza

- c) Among Leibniz's published correspondence are letters to and from this French Catholic philosopher, co-author of the *Port-Royal Logic*.

Answer: Antoine Arnauld

8. Name the following architects from works FTPE.

- a) The East Building of the National Gallery of Art in Washington, D. C.

Answer: Ieoh Ming Pei

- b) The Sainsbury Wing to the National Gallery in London.

Answer: Robert Charles Venturi

- c) The Solomon R. Guggenheim Museum in New York City

Answer: Frank Lloyd Wright

9. Identify these poems by Walt Whitman given a description FTPE.

- a) In the sixth section, a child asks the narrator "What is the grass?" Ending with a famous "yawp," this poem is the first in Whitman's collection *Leaves of Grass*.

Answer: Song of Myself

- b) The fourteenth stanza of this long poem is the song of the hermit thrush. Written in the style of Keats, it is a eulogy commemorating the death of Abraham Lincoln.

Answer: When Lilacs Last in the Dooryard Bloom'd

- c) Another eulogy for Lincoln, the title of this poem is recited famously atop a desk during the final scene of the film *Dead Poets' Society*.

Answer: O Captain! My Captain!

10. Identify the following about various forces in physics FTPE.

- a) These particles are the carriers of the strong nuclear force.

Answer: gluons

- b) The weak nuclear force is carried by w particles and this other type of particle.

Answer: z particle

- c) The force of gravity is thought to be propagated by this theoretical particle.

Answer: graviton

11. Name the following from economics news in January 2002 FTPE.

- a) On January 23, this Internet retailer announced it had posted its first-ever quarterly profit.

Answer: Amazon.com

- b) Which individual owns Amazon?

Answer: Jeff Bezos

- c) The day of the announcement, many Amazon stockholders sold their stock hoping to buy it back later at a lower price. What is this process called?

Answer: shorting

12. Answer the following about the leadership of the Army of the Potomac FTPE.

- a) After the Union defeat at the first battle of Bull Run, this man became the first leader of what was to become the Army of the Potomac.

Answer: George McClellan

- b) This man, McClellan's left wing at Antietam, reluctantly took command of the Army of the Potomac after Lincoln removed McClellan for failing to pursue Lee.

Answer: Ambrose Burnside

- c) After Burnside's defeat at Fredericksburg, this man took charge of the army of the Potomac leading it until his resignation just before the battle of Gettysburg.

Answer: Joseph Hooker

13. Identify these Tennessee Williams dramas from some lame descriptions FTPE.

- a) [note to moderator: shout it loudly, you pansy] STELLA!

Answer: *A Streetcar Named Desire*

- b) In this play, Laura Wingfield's mother tries desperately to find a suitor for her. Laura, however, is preoccupied with her silicate representations of many different animals.

Answer: *The Glass Menagerie*

- c) In this play, Big Daddy Pollitt is dying of cancer and must decide which of his sons will inherit his fortune. Brick, Big Daddy's favorite son, suffers over the death of his best friend and is apathetic towards his wife Maggie.

Answer: *Cat on a Hot Tin Roof*

14. Given a jazz album, give its principal artist FTPE.

- a) *Birth of the Cool*

Answer: Miles Davis

- b) *Brilliant Corners*

Answer: Thelonious Sphere Monk

- c) *The Shape of Jazz to Come*



Answer: Ornette Coleman

15. Identify the following about baseball FTPE.

- a) Name the man who led a group to purchase the Red Sox for \$660 million and owns part of three teams.

Answer: John Henry

- b) Name the team, winner of the 1997 World Series, which Henry purchased from Wayne Huizenga.

Answer: Florida Marlins (accept either)

- c) As of early 2002, Henry somehow still owns a 1% share of this American League team.

Answer: New York Yankees

16. Answer the following about the family of closed surfaces FTPE.

- a) This surface is obtained by cutting out a disc from a sphere and stitching on a crosscap on to the resulting rim.

Answer: projective plane

- b) The projective plane, unlike the sphere, lacks this property as a result of which it does not have a well defined inside or an outside.

Answer: orientability (do not accept orientation)

- c) Name the numerical quantity that distinguishes between the different orientable surfaces, which may be viewed as the number of handles that must be attached to a sphere to construct the surface.

Answer: genus

17. Psychological definitions FTPE.

- a) The tendency to bias our perception of another person in the direction of one particular characteristic that we like or dislike.

Answer: halo effect

- b) This apparent motion results when stationary light sources are turned on and off in succession.

Answer: phi phenomenon (prompt on stroboscopic motion)

- c) A mental disorder in which a person is unable to cope with anxieties or conflicts and develops symptoms that he/she finds distressing, it not a categorization in the DSM-IV.

Answer: neurosis (accept neuroses)

18. Name these characters from the *Shahnama* FTPE.

- a) This blacksmith's apron became the flag of freedom for the revolt against the dragon king Zuhak.

Answer: Kavah

- b) This king kills his son Sohrab in a tragic combat in which they failed to recognize each other.

Answer: Rustam

- c) This prophet introduces a dualistic religion based on Ahura Mazda and Ahriman.

Answer: Zoroaster or Zarathustra

19. FTPE, name the U.S. airline from North American hub cities.

- a) Minneapolis-St. Paul, Detroit, and Memphis

Answer: Northwest Airlines

- b) Chicago, Miami, Washington, Denver, San Francisco, and Los Angeles

Answer: United Airlines

- c) Newark, Houston, and Cleveland

Answer: Continental Airlines

20. Answer the following questions concerning the Great Awakening FTPE.

- a) Most influential in the U.S. was the evangelism of this man, who worked with his brother Charles to found Methodism.

Answer: John Wesley

- b) This man was an itinerant preacher focusing on the necessity of experiencing a rebirth in Jesus.

Answer: George Whitefield

- c) This Congregationalist minister from Boston was an opponent of Jonathan Edwards and wrote *Seasonable Thoughts on the State of Religion in New England*.

Answer: Charles Chauncy

21. Given a patriotic work of American literature, identify its creator FTPE.

- a) *Old Ironsides*

Answer: Oliver Wendell Holmes, Sr.

- b) *Barbara Frietchie*

Answer: John Greenleaf Whittier

- c) *The 42<sup>nd</sup> Parallel*, *1919*, and *The Big Money*, which make up *The U.S.A. Trilogy*

Answer: John Dos Passos

22. Name these reactions common in organic chemistry FTPE.

- a) This reaction involves the condensation of an aldehyde or ketone and an alcohol to form a beta-hydroxy ketone.

Answer: aldol condensation

- b) This reaction is an addition-elimination process that produces a beta-keto-ester from an ester enolate adding to another ester.

Answer: Claisen condensation

- c) The electrophilic substitution of aromatic molecules with acyl chlorides facilitated by strong Lewis acids.

Answer: Friedel-Crafts acylation

23. Identify the following about Pandora FTPE.

- a) Who created her at Zeus' command?

Answer: Hephaestus

- b) Who was her husband?

Answer: Epimetheus

- c) Who was her brother-in-law, who warned her not to open the box?

Answer: Prometheus

24. Answer the following about the reconstruction legislation FTPE.

- a) This bill passed Congress in 1864, but was pocket vetoed by President Lincoln. It forced the states to write new constitutions banning slavery.

Answer: Wade-Davis Bill

- b) This constitutional amendment was passed in Congress in June 1866.

Answer: Fourteenth Amendment

- c) Headed by General Oliver B. Howard, this government organization could be called the first US federal welfare agency. It provided aid to African-Americans until it was terminated in 1872.

Answer: Freedmen's Bureau or U.S. Bureau of Refugees, Freedmen, and Abandoned Lands