

Cardinal Classic XI  
Packet by Berkeley C  
Round 4

Tossups

1. He trudges Southern Street searching for a place where he may eat or rest, looking vainly for a job other than menial labor, feeling the "hate stare." (\*) His effigy was hung from the center light on Main Street. Hate-filled people whispered that he had been a Negro all along. He is a white man who darkened the color of his skin. FTP, name this man, who retold these events and more in "Black Like Me."

Answer: John Howard \_Griffin\_

2. As a teenager he followed the political economy work of Smith and Ricardo, and in 1848 he published his Principles (\*) of Political Economy. A disciple of Jeremy Bentham, he became a prominent proponent of utilitarianism. He also penned the treatise The Subjection of Women, manifesting his belief in women's rights. For ten points, name this English author of "On Liberty."

Answer: John Stuart \_Mill\_

3. It is the complement to Norton's theorem, and states that a linear, (\*) active, resistive network which contains independent voltage or current sources can be replaced by a single voltage source and a series resistance. FTP, what is this circuit analysis theorem, which greatly simplifies network analysis under various load conditions?

Answer: \_Thevenin\_'s theorem

4. On Dec 30th, 1853, Santa Anna made one of the biggest blunders of his political career. Because the Treaty of Guadalupe Hidalgo (\*) left the western part of the U.S.-Mexico border disputed, and the United States wanted a southern railroad route to the Pacific, 29,640 square miles of land between the Gila River on the north and the current border were sold to the United States for 10 Million Dollars. FTP, name this strip of land, named after the U.S. minister to Mexico.

Answer: \_Gadsden Purchase\_

5. This mezzo-soprano made her first appearance on the opera stage singing an off-stage role as a shepherd in a production of Tosca at the Rome Opera Company. Taught only by her mother, Silvana Bazzoni, (\*) also an opera singer, she made her Paris debut in 1991 as Cherubino in The Marriage of Figaro. FTP, name this opera superstar, probably most famous for her rendition of Rosina in the Barber of Seville.

Answer: Cecilia \_Bartoli\_

6. Some systems of linear differential equations can be solved by decoupling them so that you have only one unknown in each equation. If A is the diagonal matrix of coefficients of your system, and X is the matrix formed from the eigenvectors, (\*) then the product of X-inverse times A times X gives the eigenvalues and performs, for ten points, what operation on A?

Answer: \_diagonalization\_

7. Gary Gersh made this band his first signing on the DEN label on the basis of the buzz surrounding its 1998 album, "In Casino Out." (\*) When DEN folded in July of 2000, Grand Royal picked up this Cedric Bixler-fronted band and its newly recorded album, "Relationship of Command." FTP, name this El Paso, Texas-based punk band whose video for "One Armed Scissor" was recently named buzzworthy.com by MTV.

Answer: \_At the Drive In\_

8. He worked as a research fellow with Thomas Francis on the influenza vaccine at the University of Michigan. (\*) His work on all three strains of a crippling virus required that he expose the virus to 13 days of formaldehyde. He tested the virulence on monkey brains. From 1956 to 1958, out of 200 million injections made, not a single one resulted in paralysis. FTP what microbiologist has an institute in San Diego named after him?

Answer: Jonas E. \_Salk\_

9. Her brother escaped death with the help of Jesuit priests, whom he later joined, travelling to South America. Her servant has only one buttock because the other was eaten by soldiers during a battle. (\*) She has 72 generations of nobility in her blood because she was born to the baron of castle Thunder-ten-tronckh. FTP who is this lovely lady desired by Candide?

Answer: \_Cunegonde\_

10. Barbeau peak is the highest point on this island. To the north is the Lincoln Sea and to the south Devon island. As the third largest (\*) Canadian island, its size is roughly 75,700 square miles. Major cities include Grise Fjord and Eureka. FTP what island is it, the northernmost of the Canadian islands?

Answer: \_Ellesmere\_ Island

11. His son Broteas flung himself into a pyre because he was so ugly or blind. He once offered his dismembered son (\*), Pelops to the gods at a banquet. He once betrayed the secret of Zeus and offered ambrosia to his friends. This son of Zeus or Tmolus is the ancestor to the house of Atreus. FTP, what figure was punished by never being able drink from a retreating lake or eat from a bountiful fruit tree.

Answer: \_Tantalus\_

12. Little is known about them because they were semi-nomadic and left little record, but clay tablets found in Fara revealed (\*) their appearance in written records in the list of kings of the city of Kish. The evidence was derived from the semitic names on the list. These people lived peacefully along side the Sumerians in Mesopotamia. What empire was, for ten points, founded in 2350 B.C. by Sargon?

Answer: \_Akkadians\_

13. After the Uranium 238 in the reactor core is split, neutrons are released through fission to maintain the chain reaction. Excess neutrons are released into the coolant or the reactor structure. (\*) The reacting neutrons are absorbed by Uranium 238, which undergoes beta decay into plutonium. FTP name this type of reactor that produces plutonium fuel in addition to energy derived from uranium fission.

Answer: \_breeder reactor\_

14. Born of Ilmatar, he defeats Jokunhainen in a singing contest, woos Louhi's daughter, the maiden of Pohjola (\*), and searches for magic spells inside the stomach of a dead wise man. By magical means he convinces Ilmarinen to go to Pohjola and forge the Sampo for Louhi and on top of all that, he saves his people from disease with his magical singing, and finally sails away on the sea in a copper boat. FTP, who is this greatest hero, singer, and magician of the Finnish epic Kalevala?

Answer: \_Vainamoinen\_

15. Its teachings consisted originally of a mix of Buddhist and Manichean doctrines. The founding of the group was ascribed to the monk Peng Yingyu and a putative heir to the Song Empire named Han Shantong. (\*) This movement would later rise in the Ming Dynasty under the same name and serve as a model for the Boxer Rebellion. FTP name this rebellious movement that aided the rise of the Ming dynasty by destroying Yuan power over the Yangtse River Basin in the early 14th century.

Answer: The \_White Lotus\_

16. This sponsor of U2's upcoming Elevation tour (\*) made its humble beginning in Eden Prairie, MN as The Sound of Music in 1965. As years went by, The Sound of Music started selling large household appliances and televisions, too, so a name change was in store. FTP, name this big-box electronics retailer, whose stores generally feature a bright blue facade complemented by a giant yellow price tag.

Answer: \_Best Buy\_

17. He travels backward in time to meet himself and to kick himself in the shins. He pleads the case for the human race in a Galactic congress. He visits mad scientists (\*) and discusses their inventions with them. FTP, identify this Slavic friend of Professor Tarantoga and the main character of Stanislaw Lem's The Star Diaries and Memoirs Found in a Bathtub.

Answer: \_Ijon Tichy\_ (pronounce "ee-yon tee-hee")

18. Geno Carlisle of the San Diego Wildfire currently leads this league in scoring. League teams include Tampa Bay Thunder Dawgs, and the Indiana Legends. Gimmicks for this league include a rule where a 2 point shot made after a back-court steal is worth 3 points (\*) as well as a red, white and blue ball. Essentially a re-incarnation of the league that featured such teams as the Virginia Squires and the San Antonio Spurs. FTP, name this league that first brought Dr. J. to prominence.

Answer: \_A\_merican \_Basketball \_A\_ssociation

19. The volatility of inflation in past periods causes consumers and businesses to invest time and money to create accurate forecasts of inflation. The clarity of the resulting forecasts, under the strongest assumptions (\*) allows them to predict perfectly what the rate of inflation will be in each time period. Shocks that have been factored into the forecasts and are therefore anticipated have therefore no impact upon the level of real output. FTP name the central assumption about expectations developed by Robert Lucas which won him the 1995 Nobel Prize.

Answer: \_Rational Expectations\_

20. Starting from the Astor Place Theatre in Greenwich Village (\*) with the show "Tubes" in 1992, this performance troupe has moved its show over to such locales as Boston, Chicago, and the Luxor Hotel in Las Vegas. The troupe recently received a Grammy Nomination for best pop instrumental album for its disc, "Audio." FTP, name this group of performance artists probably best known for their bright blue exteriors.

\_Blue Man Group\_

21. Although this artist was not widely known during his lifetime, Peter Paul Rubens made an investment (\*) in his work, and later profited handsomely from it. He was commissioned to paint The Death of the Virgin, but the painting was rejected because the artist had made Mary look like a common prostitute by showing her naked, swollen feet. FTP, name this Italian artist, who also painted The Calling of St. Mathew and The Supper at Emmaus.

Answer: \_Carravaggio\_

22. They dwell upon the island on Nukuheva next to the Tyohee (\*) and the Happar. Their name “in the Marquesan dialect signifies a lover of human flesh.” Among them the narrator and his friend Toby found themselves after escaping from the whaler “Acushnet” in French Polynesia. Their four adventure-filled months there are described in a novel first published in 1846. Name this titular tribe of Herman Melville’s first novel.

Answer: \_Typee\_

23. This civilization rose around the third cataract of the Nile, establishing a trade center and early capital at Kerma. (\*) The descendants of its first prince, Alara, formed the 25th dynasty of Egypt around 750 BC, but were forced south by subsequent Assyrian and Persian invasions. Over the next few centuries, its capital moved from Napata to Meroe, its principal god changed from Amon to Apedemak, and the royal institution of Kandakes, or warrior queens, was founded. For ten points, name this kingdom succeeded by Axum.

Answer: \_Kush\_ (prompt on Nubia)

24. Established under the Carolingians, this philosophical system attempted to reconcile Christian dogma with the empiricism of Aristotle. Primary methods of teaching (\*) were the lectio and disputatio, formal readings and debates consisting largely of syllogism analysis. Its formal beginnings are often identified with St. Anselm of Canterbury. FTP, identify this school of thought whose adherents included Duns Scotus, Peter Abelard and St. Thomas Aquinas.

Answer: \_Scholasticism\_

25. Alkaline batteries generally use a manganese-dioxide-and-carbon cathode and a zinc anode to contact the electrolyte mix, but Energizer (\*) claims this other metal can improve the cathode conductivity in their new e-squared battery line. This metal is better known in its alloys with aluminum and vanadium as a lightweight material for aircraft bodies and ordnance. For ten points, name element number 81.

Answer: \_Titanium\_

26. Following Julio Cortazar and Juan Carlos Onetti, he has experimented with existentialism and Jungian archetypes in novels such as (\*) Cambio de Piel. His recent books such as “The Years with Laura Diaz” have been collected into an ongoing “Age of Time” series. For ten points, name this Mexican author of The Death of Artemio Cruz.

Answer: Carlos \_Fuentes\_

## Bonuses

1. Name the muckraker given works on a 5-10-15 basis.

(5) King Coal and The Jungle

Answer: Upton \_Sinclair\_

(10) The Tariff in Our Times and the History of the Standard Oil Company

Answer: Ida \_Tarbell\_

(15) You Can't Print That and Victory Over Fascism

Answer: George \_Seldes\_

2. During the middle ages, different regions had different names for their traveling minstrels. Given a region, give the local name for a traveling minstrel FTPE.

(A) Northern France

Answer: \_Trouvere\_

(B) Southern France

Answer: \_Troubadour\_

(C) Germany

Answer: \_Minnesinger\_

3. In 1996, Miramax released a biopic on a Haitian graffiti artist, who made a name for himself within the New York City art scene during the 80s. FTP, Name that film:

Answer: \_Basquiat\_

The director of Basquiat was himself a popular artist within the New York City art scene during the 80s. FTP, name him.

Answer: Julian \_Schnabel\_

Schnabel's new film, Before Night Falls, is a biopic about this Cuban writer of Singing From the Well and the Palace of White Skunks, who died of AIDS in 1990.

Answer: Reinaldo \_Arenas\_

4. Name the literary conflict from the clues 30-20-10.

(30) Xu You's advice was not heeded by the northern army and thus he betrayed them by defecting to the southern army. Zhang He and Gao Lan also defect.

(20) Chun Yu Qiong was placed in charge of Wuchao, but the stores of grain and supplies are burned in a night raid by the southern army.

(10) This epic battle features the Ts'ao Ts'ao and his 70,000 troops defeating the 700,000 troops of Yuan Shao. It is detailed in the Romance of the Three Kingdoms.

Answer: \_Battle of Guandu\_

5. FTSNOP give the place or term from seismology given a description.

(5) This is where the hanging wall moves up along the foot wall.

Answer: \_Normal\_ or \_Thrust\_ Fault

(10) This where both sides of the fault move opposite one another, like the San Andreas.

Answer: \_Strike-Slip\_ Fault

(15) This site is considered the triple junction of the Pacific, North American, and Juan De Fuca plates. It is found along the coast of Northern California.

Answer: Cape \_Mendocino\_

6. Answer the following questions about the battle of Thermopylae, FSNOP

(5,5,5) For five points each, name the Spartan king who died in the battle, the leader of the Persians, and the year in which the battle occurred.

Answers: \_Leonidas\_, \_Xerxes I\_, \_480 BC\_

(15) This leader of the Athenian radical democrats in the 460's betrayed the Spartans by guiding the Persians along another mountain pass allowing the Persians to outflank the Spartans.

Answer: \_Ephialtes\_

7. Time for some exciting Chinese mythology. FTSNOP, give the deity from a brief description.

(5) This legendary emperor created mankind, the compass, and social order, and invented writing.

Answer: \_Huang Di\_ or \_Yellow Emperor\_

(10) The goddess of thunder, she is the consort of Huang Di. She is often credited with teaching the Chinese the art of breeding silkworms.

Answer: \_Lei Zi\_

(15) One description of this giant has him hatching from a cosmic egg where the top becomes heaven and the bottom earth. His hair becomes the trees and grasses, his eyes the sun and moon and so on.

Answer: \_Pan Gu\_

8. FTPE, identify the Spanish Baroque painter given the name of some paintings:

(1) "The Flaying of St. Bartholomew" and "Immaculate Conception"

Answer: Jose de \_Ribera\_

(2) "Defense of Cadiz against the English" and "Adoration of the Kings"

Answer: Francisco \_Zurbaran\_

(3) "The Forge of Vulcan" and "The Triumph of Bacchus"

Answer: Diego \_Velazquez\_

9. Name the female author of these Pulitzer Prize winners given the work and year that they won it, FTPE  
(A) So Big, 1925

Answer: Edna \_Ferber\_

(B) The Able McLaughlins, 1924

Answer: Margaret \_Wilson\_

(C) One of Ours, 1923

Answer: Willa \_Cather\_

10. Given the name of a beer, name the country from which it originates FTPE.  
(A) Moosehead

Answer: \_Canada\_

(B) St. Pauli Girl

Answer: \_Germany\_

(C) Red Stripe

Answer: \_Jamaica\_

11. Answer the following questions about the Mughal Empire in India, on a 5-10-15 basis:

(5) This third emperor of the Mughals attempted to create his own religion by combining elements of Hinduism, Islam, Christianity.

Answer: \_Akbar\_

(10) The Mughal Empire was established by the victory of the first emperor Babur over Ibrahim Lodi of the Delhi Sultanate at this 1526 battle

Answer: \_Panipat\_

(15) The emperor Aurangzeb reimposed this levy on non-Muslim subjects of the Mughals

Answer: the \_jizya\_

12. Answer the following questions about the 1839-1842 First Opium War, on a 5-10-15 basis:

(5) Name the European nation that was the principal belligerent in the war

Answer: Britain

(10) The opium sold to Chinese consumers was produced in Oudh in this British colony

Answer: India

(15) This 1842 Treaty terminated the hostilities, by granting trading rights to Britain in a number of Chinese ports and ceding Hong Kong.

Answer: The Treaty of Nanking

13. Identify the following poems by William Butler Yeats from lines on a 15-5, 15-5 basis.

(15) The best lack all conviction, while the worst  
Are full of passionate intensity.

(5) Things fall apart, the center cannot hold

Answer: The Second Coming

(15) Too long a sacrifice  
Can make a stone of the heart.  
O when may it suffice?

(5) All changed, changed utterly:  
A terrible beauty is born.

Answer: Easter, 1916

14. FTPE, how many degrees of freedom does each of the following bodies have?

(A) A material point moving in 3-D space?

Answer: 3

(B) A rigid body in 3-D space?

Answer: 6

(C) A disk rolling on a horizontal base with slipping?

Answer: 2

15. Identify the following biochem terms from description FTPE.

(A) The cleavage of a bond by orthophosphate.

Answer: Phosphorolysis

(B) A form of double-helical DNA containing about 11 residues per turn. The planes of the base pairs in this right-handed helix are tilted 20 degrees away from the perpendicular to the helix axis.

Answer: A-DNA



(C) A group of small RNA viruses, which have the characteristic that a single-stranded RNA molecule is surrounded by an icosahedral protein shell. Poliovirus and rhinovirus both belong in this category.

Answer: Picornaviruses

16. Answer the following questions about the landmark 1914 Clayton Antitrust Act:

(A) The Clayton Act was adopted as an amendment to this 1890 act, which banned monopolies.

Answer: The Sherman Antitrust Act

(B) This federal body was designated as the forum for appeals concerning violations of the Act.

Answer: The Federal Trade Commission

(C) Name one of the two types of organizations that were exempted by the Clayton Act from restrictions imposed originally by the Sherman Act on restraints of trade.

Answer: Labor unions or agricultural cooperatives

17. Identify the following models of imperfect competition, on a 5-10-15 basis

(5) Firms as a group recognize their ability to affect price and so coordinate pricing to maintain monopoly profits.

Answer: Cartel

(10) Each of two firms recognizes that its quantity decisions affect its total revenue through its direct effect on the market price of its own sales.

Answer: Cournot duopoly

(15) A market leader sets the quantity based upon its knowledge of the output produced by other firms.

Answer: Stackelberg Leadership

18. The Baseball Writers of America recently elected Kirby Puckett and Dave Winfield to the Baseball Hall of Fame, but do you know who just missed the cut? Given a runner-up's position, team he played for the longest and key stats, name him FTPE.

(A) Catcher, Montreal Expos, 324 Home Runs

Answer: Gary Carter

(B) Outfield, Atlanta Braves, 398 Home Runs

Answer: Dale Murphy

(C) Pitcher, Chicago Cubs, 300 Saves

Answer: Bruce Sutter (pronounced Sou-ter, but any pronunciation is acceptable)

19. For 5, 10, 15, identify the following medieval peoples who established kingdoms in Europe:

(5) Serving alternately as allies and enemies of the Romans, this people conquered much of Gaul after defeating the Thuringians, Visigoths and Romans. Clovis was the first king to unify this people, and Charlemagne extended their empire to its greatest power.

Answer: The \_Franks\_

(10) This tribe eventually occupied the plains of the Po River in northern Italy, bequeathing their name to the Italian region centered upon Milan.

Answer: The \_Lombards\_

(15) This central Asian people established a vast kingdom in the Danube basin circa 600 A.D., and ruled it through the 8th century A.D. They unsuccessfully laid siege to Constantinople in 626 under their leader, the khagan Baian.

Answer: The \_Avars\_

20. Name these dotcom's which have closed down due to lack of funding FTSNOP.

(5) This company is backed by Amazon.com, but is now defunct laying off 255 of its 320 workers. The sock puppet is dead.

Answer: \_Pets.com\_

(10) This online clothing retailer recently shutdown. The founders Ernest Malmsten and Kajsa Leander are being paid to write a book charting the company's demise after just 6 months of operation

Answer: \_Boo.com\_

(15) Filing for Chapter 11 bankruptcy, this Charlottesville, Virginia company has shifted to helping companies take and deliver orders. It is backed by Federal Express founder Fredrick Smith and Paul Allen.

Answer: \_Value America\_ or \_Valueamerica.com\_

21. Answer the following questions about the philosophy of Ludwig Wittgenstein FTPE:

(A) This seminal 1921 work analyzed importance of scientific propositions as opposed to metaphysics and ethics, which the work considered to be meaningless and without value.

Answer: \_The Tractatus Logico-philosophicus\_

(B) Wittgenstein's early work strongly influenced this Vienna philosophical school, which interpreted his analysis as supporting their views on the value of knowledge in different areas.

Answer: \_logical positivists\_ or \_Vienna circle\_ positivists

(C) Wittgenstein's later Philosophical Investigations developed this concept as a response to his questions about the role of language:

Answer: \_word games\_

22. Identify these various computer sorts FTPE.

(A) This sort works by assuming that the records previous to the one being processed are already in order. The record being processed is then placed in the list of preceding records according to its value.

Answer: \_Insertion sort\_

(B) This sort is named after a binary tree with the property that all records sorted in nodes are in sorted order along the path from each node back to the root.

Answer: \_Heap sort\_

(C) This sort requires ranking a set of objects subject to constraints on the resulting placement and takes its name from a branch of mathematics.

Answer: \_Topological (Top) sort\_

23. FTPE, name the players who won the Golden Boot given the year in which the World Cup was played and the number of goals that player scored. If you need the player's nationality, you will only receive 5 points.

(A) (10) 1970, 10 goals  
(5) German

Answer: Gerd \_Muller\_

(B) (10) 1958, 13 goals  
(5) French

Answer: Just \_Fontaine\_

(C) (10) 1998, 6 goals  
(5) Croatian

Answer: Davor \_Suker\_

24. Identify these terms from logic FTPE

(A) A statement form that takes on the value True for all assignments of truth values to its statement letters.

Answer: \_tautology\_

(B) A statement form that takes on the value False for all assignments of truth values to its statement letters.

Answer: \_contradiction\_

(C) A statement is said to be in this form if either it is a fundamental conjunction or is a disjunction of two or more fundamental conjunctions, none of which is included in the other.

Answer: \_disjunctive normal form\_

25. Identify the following Shakespearean plays from minor characters for fifteen points, or from major ones for five.

- (A)      (10)      Amiens, La Beau, Touchstone, Celia  
             (5)      Duke Frederick, Orlando, Rosalind

Answer: \_As You Like It\_

- (B)      (10)      John Morton, Cardinal Bouchier, Earl Rivers, Anthony Woodville  
             (5)      Lord Hastings, Lady Anne, future Edward V, future Henry VII

Answer: \_Richard III\_