

Cardinal Classic XI

Round 13

Packet by Elliot Mandel of Stanford et al.

TOSSUPS:

1. "It is a matter of life and death, a road either to safety or to ruin. Hence it is a subject of inquiry which can on no account be neglected. (*)" It, "then is governed by five constant factors, to be taken into account in one's deliberations, when seeking to determine the conditions obtaining in the field." These passages pertain to, FTP, what, also the title of a master work of strategy by Sun Tzu?

ANS: The ART OF WAR

2. In an experiment conducted by Lord Rayleigh, gas obtained from air contained a small amount of a gas (*) heavier than nitrogen. This gas was later found to make up 0.94 % of the atmosphere, and have an atomic weight of 39.948 a.m.u. FTP, name this noble gas, used in electric light bulbs and fluorescent tubes, having atomic number 18.

Answer: _Argon_

3. It often occurs in water shielding nuclear reactors where electrons from the reactor displace electrons from atoms in its path. These displaced electrons form strong electromagnetic waves that are of a characteristic blue color. FTP, name this effect, named for a Soviet physicist, that is analogous to a sonic boom and occurs when a charged particle moves faster than the speed of light in a particular medium.

Answer: _Cerenkov_ Radiation or Effect or Light

4. In the second part of this work, a letter by Judge Vilhelm, "The Aesthetic Validity of Marriage", attempts to refute A's claims in "The Seducer's Diary. (*)" It is thought that Vilhelm takes a Kantian stance in trying to present the Ethical way of life as opposed to the Aesthetic. Subtitled "A Fragment of Life," FTP, what is this notable work about choosing between ethics and aesthetics, by Soren Kierkegaard?

Answer: _Either/Or_

5. Examples of this style of Italian opera writing include Wolf-Ferrari's *The Jewels of the Madonna* and Giordano's *Andrea Chenier*. Flourishing in the 1890's (*), it is marked by melodramatic, violent plots with characters drawn from everyday life, and it takes its name from the Italian for realism. FTP, identify this style, the most famous examples of which are *I Pagliacci* and *Cavalleria Rusticana*.

Answer: _verismo_ accept realism on early buzz.

6. This unlikely titular seducer of Pushkin's erotic poem was sent to Daniel to explain the vision of the ram and the he-goat and to communicate the prediction of Seventy Weeks. In the Book of Enoch, he is placed in the same group as (*) Michael, Uriel, and Suriel or Raphael. The messenger sent to Zechariah to announce the birth of John the Baptist, FTP, name this archangel who announced the birth of Jesus to Mary.

Answer: _Gabriel_

7. He became a friar under the name Giovanni da Fiesole and he once refused a nomination to be Archbishop of Florence. His altarpiece for San Marco (*) is one of the first works in the theme of the Sacred Conversation. FTP, identify this painter, known for his piety, who created the frescoes "Lives of Saints Stephen and Lawrence" and "The Beheading of Saints Damian and Cosmas."

Answer: Fra Angelico or Guido di Pietro

8. The last of its 14 scenes was interchangeable and could be used either to begin or end the film. Directed by Edwin S. (*) Porter, a former Thomas Edison cameraman, it caused a sensation due to the aforementioned scene wherein a bandit points a gun at the camera and fires. FTP, identify this film, based on the August 29, 1900 hold up of the No. 3 train by Butch Cassidy and his gang.

Answer: The Great Train Robbery

9. This act built on the understanding created by the 1907 Gentleman's Agreement (*). It was prompted by concerns about Japan's violation of the Open Door Policy and American discrimination against Japanese immigrants. FTP, identify this 1908 agreement named after the Japanese ambassador and US secretary of state who drew it up.

Answer: Root-Takahira agreement

10. Written by Farid ud-Din Attar, it is an allegorical work about the Sufi quest for spiritual liberation. At the heart of the work lies a pun in that the (*) "Simorgh," the object of the spiritual journey, is actually "si morgh", or the 30 birds who undertook the journey. FTP, identify this narrative verse work about these winged pilgrims.

Answer: The Conference of Birds or Manteq at-Tair

11. He was victorious twice at the Masurian Lakes, once over the army of Rennenkampf and once over a Russian force of 120,000 who were only saved because they fled into a swamp. He formed the Third Supreme Command with Erich von Ludendorff which ruled until September 1918 when defeat became inevitable. FTP, identify this German commander at Tannenberg who later served as President of Germany and appointed Hitler chancellor.

Paul Ludwig Hans Anton von Beneckendorff und von Hindenburg

12. This tragedy, written in 1677, represented the playwright's return to the Jansenist group. Borrowing from Euripides' *Hippolytus* (*), this work focuses on the sin and punishment of the stepmother of Hippolytus since the playwright correctly believed that women best represent the weakness of human nature. FTP identify this work about a wife of Thesues by Racine.

Answer: Phaedra

13. The first victim is the Comedian. Jon Osterman, a.k.a. Dr. Manhattan, flees to Mars after being ambushed by a reporter claiming he causes cancer. An assassination attempt is made on (*) Adrian Veidt, formerly Ozymandias, and Rorschach is arrested after being set up for Moloch's murder. FTP, identify this graphic novel by Alan Moore and Dave Gibbons, which takes its title from Juvenal's *Satires*.

Answer: Watchmen

14. While analyzing the decays of K-mesons, Lee and Yang (*) came to the conclusion that it may not apply to weak interactions. In 1957 Wu showed that electrons ejected along with antineutrinos during cobalt decay are predominantly left handed. FTP, what law does this describe, which is now believed to apply if the eponymous concept is joined by charge conjugation and time reversal.

Answer: Parity conservation

15. This work of fiction, published in 1939, was known as *Work in Progress*(*) as it was developed over 17 years with excerpts appearing in the Parisian magazine, *transition*. Characters include Kevin, Jerry, Isabel, and Mrs. Plurabelle and it consists entirely of the night thoughts and dreams of the central family. FTP, identify this work dealing with the family of Humphrey Earwicker by James Joyce.

Answer: Finnegan's Wake

16. His theories provided rationale for the repeal of Britain's Corn Law in 1846, since high priced corn could lead to inhibited economic (*) growth. In his most famous work, he argued that profits vary inversely with wages and that high wages encourage capital-intensive production. He also held that countries should do what they do best. FTP, name this author of *Principles of Political Economy and Taxation*.

Answer: David Ricardo

17. This plan of governmental reform was annulled by the Dictum of Kennilworth (*) in 1266. The king, bankrupted by a venture in Sicily, called the Mad parliament which promised financial aid in exchange for it. It placed the government under the joint direction of the king and a 15 member baronial commission. FTP, identify this plan, accepted in 1258 by Henry III.

Answer: Provisions of Oxford

18. Tossup: Other History

This leader eventually abolished the collection of tolls on the roads and from the guilds, and he took agricultural control of the Owari plain. A member of the (*) Fujiwara clan, he was the first of the daimyo (DIME-yo) to equip his military troops with muskets, and by the end of his tenure as dictator in 1582, he had united half of Japan. For 10 points-- name this warrior, who brought an end to the Ashikaga shogunate.

Answer: Oda Nobunaga (either name is acceptable on its own)

19. The last two poem's in this poet's most famous collection are "Of the Vanity of All Worldly Creatures" (*) and "David's Lamentation for Saul and Jonathan." The collection, "Contemplations" earned her critical acceptance. FTP, identify this 17th century American poet of *The Tenth Muse*.

answer: Anne Bradstreet

20. Springing from a land grant to the Indian monk Ba Tuo, it expanded during the reign of Wen Di, who sought to strengthen imperial ties to Buddhism (*). 527 A.D. saw the arrival of Bodhidharma, who proceeded to found Zen Buddhism within its confines. FTP, name this religious compound in Henan province where some 6,000 students are trained in kung fu by Chinese warrior monks.

Answer: Shaolin Temple

21. Becoming a quaestor at 21, he served on the Rhine under the command of his adopted father, (*) Tiberius. Although offered the throne after the death of his grandfather, Augustus, he remained loyal to Tiberius. While in Syria, he was poisoned by Piso. FTP, name this grandfather of Nero, father of Caligula, and elder brother of Claudius.

Answer: _Germanicus_

22. There are actually three narrators: a man travelling in the Caucasus from Tiflis to Vladikavkaz; an old officer by the name of Maksim Maksimovich; and the central character, the quintessential (*) superfluous man. Stories told include romances, such as "Princess Mary", and the story of Vulich in "The fatalist". For ten points, name this work about Pechorin by Mikhail Lermontov.

Answer: _Hero of Our Time_ or _Geroy nashogo vremeni_

23. Tossup: Biology

One class of these, colicogenic factors, makes possible the production of colicins, proteins which have antibiotic activity. Another class, (*) R factors, provide resistance to antibiotics. When they are attached to the cell membrane or integrated into the chromosome they are called episomes. For ten points, name these circular pieces of DNA found in bacteria.

Answer: _plasmids_

24. A member of the 1964 gold medal U.S. Olympic basketball team, and a three-time ABA All-Star, in 1977 he began coaching at (*) Denver, and went to New Jersey before returning to the college level from 1983-89. He then went to the Spurs, the L.A. Clippers, and, Pacers before his current assignment. FTP, name this man, who led Kansas to an NCAA title in 1988, and now coaches Allen Iverson.

Larry _Brown_

25. Dini and Dirichlet (DEER-ih-shlay) give conditions for almost-everywhere convergence, while Fejer (fay-YER) showed convergence in arithmetic mean. Discontinuity in the target function can cause a localized deviation of about 9%; this is called the Gibbs effect. For ten points, identify these trigonometric approximations of functions, named for their French discoverer.

Answer: _Fourier series_ (do not accept "Fourier transform")

26. Discovered 23,000 years ago, its chief exports included pocket lint, dental floss, and battery-operated hamsters. Legislation ensured that all presidential candidates shared their middle names with cheese (*). For leisure, residents played bouillabaisseball. Tragically, on October 28, 1986, the Orbit Guard failed in an attempt to save it from destruction. FTP, name this planet, the birthplace of Gordon Shumway, also known as ALF.

MELMAC

BONUSES:

1. Answer the following questions from Hebrew mythology, 15 each

(15) This is a disembodied human spirit that, because of former sins, wanders restlessly until it finds a haven in the body of a living person.

Answer: _dibbuk_ or _dybbuk_

(15) This powerful animal is described in Job as having bones that are tubes of bronze and limbs like bars of iron. He is expected to fight the Leviathan in the messianic era.

Answer: _Behemoth_

2. Identify these isoprenoids for ten points each

(10) The essential oil extract of pine trees, domestic uses include paintbrush-cleaning and dissolving varnish.

Answer: _turpentine_

(10) The racemic version is used to stop itching. The levo form produces a cooling effect. It's obtained from Japanese mint and is used as a cough suppressant in Halls and Vicks.

Answer: _menthol_

(10) Extracted from steam distillation of laurel chips, it was one component of celluloid and was mixed with laudanum to make a diarrhea treatment.

Answer: _camphor_

3. Identify the following Abolitionists, FTPE.

(10) Born into slavery, he founded the *North Star* in Rochester in 1847. He later became a Vice-Presidential candidate for the Equal Rights Party.

Answer: Frederick _Douglass_

(10) An Abolitionist from 1833-42, at age 19, his poem "The Exile's Departure" was selected for publication by William Lloyd Garrison.

Answer: John Greenleaf _Whittier_

(10) A former slave, at the National Convention of Colored Citizens in 1843 he famously argued that a slave was justified in using violence to gain his freedom.

Answer: Henry Highland _Garnet_

4. Identify the following Classical painters who lived in Britain, FTPE.

(10) His portraits include Lady Sarah Bunbury Sacrificing to the Graces, Commodore Keppel, as well as the more famous paintings of Dr. Johnson, Garrick, Burke, Goldsmith, Boswell, and Sheridan.

Answer: Sir Joshua _Reynolds_

(10) A founder, with Reynolds, of the Royal Academy, he followed Reynolds as president and painted "Death on a Pale Horse."

Answer: Benjamin _West_

(10) He painted equestrian portraits such as Molly Longlegs with a Jockey, The Prince of Wales' Phaeton, and Horse Frightened by a Lion.

Answer: George _Stubbs_

5. Identify the following economics terms FTP each:

(10) This two word Latin phrase refers to the practice of isolating one variable and allowing nothing else to change.

Answer: _ceteris paribus_

(10) Contrary to normative economics, which focuses on how things ought to be, this branch focuses on how things actually are.

Answer: _positive_ economics

(10) This curve expresses the different ways in which a society can spend its resources on multiple goods at the same time.

Answer: _production-possibilities_ curve

6. Answer the following questions about Roman history

(10) The leaders of this 65 A.D. plot to overthrow Nero included military officials, senators and philosophers.

Answer: _Piso_ conspiracy

(10) Virtual ruler of Rome during the 1st part of Nero's reign, this conspirator and philosopher, known for his *Consolations*, was put to death by Nero.

Answer: Lucius Annaeus _Seneca_ the younger

(10) This author of *Pharsalia* also took part.

Answer: _Lucan_

7. Answer the following questions related to Garcia-Marquez' *The General in his Labyrinth*, FTPE.

(10) First, what real-life figure is the title general?

Answer: Simon _Bolívar_

(10) Next, much of the novel deals with Bolivar's final journey on this Colombian river.

Answer: _Magdalena_ River

(10) In the novel, Bolivar is portrayed as an aging idealistic revolutionary general which allows for parallels to be drawn to this character of *100 Years of Solitude* who's encounter with a firing squad is mentioned on the first page.

Answer: _Aureliano Buendia_ (1st and last name please).

8. Identify the following Muslim philosophers, 10 each

(10) this physician influenced the Scholastics and wrote the first book of Aristotelian philosophy in Persian. He also authored "The Canon of Medicine."

Answer: _Avicenna_ or Abu Ali al-Husayn ibn Abd Allah _ibn Sina_

(10) Born in Córdoba in 1126, he was commissioned to produce commentaries on most of the works of Aristotle as well as Plato's "Republic."

Answer: _Averroës_ or Abu al-Walid Muhammad ibn Muhammad _ibn Rushd_

(10) Born of Turkic stock, most of his work concerned the ideal state and he believed that religion served to provide non-philosophers with a symbolic, easier-to-grasp version of the truth.

Answer: Muhammad ibn Muhammad ibn Tarkhan ibn Uzalagh _Al-farabi_ (accept: _Alfarabius_ or _Avenassar_)

9. Answer the following questions related to E.M. Forster's *A Passage to India*, FTPE.

(10) The novel shares its title with a poem written by this American poet.

Answer: Walt _Whitman_

(10) The relationship of this doctor with the local English oppressors is the focus of the work.

Answer: Dr. _Aziz_

(10) Alec Guinness portrayed this Hindu mystic and professor in the classic film adaptation of the novel.

Answer: Professor Narayan Godbole

10. Give the Taylor expansion of the following quantities around x equal zero to the first order in x .

(10) Square root of the sum one plus x

Answer: _one plus one half x _

(10) Cosine of x

Answer: _one_ (do not accept " x minus one half x squared")

(10) e to the power x

Answer: _one plus x _

11. Given a classical work, provide the composer FTPE.

(10) Polovtzhian Dances
Alexander (Porfiryevich) _Borodin_

(10) Tales of Hoffmann
Jacques (Jacob) _Offenbach_

(10) Symphony Number 4 in C minor, the Tragic
Franz Peter _Schubert_

12. Answer the following questions related to 13th century Persian poetry, FTPE

(10) This poet's best known works include *Bustan* or *The Orchard* and *Gulistan* or the *Rose Garden*.

Answer: _Sa'di_ Musharrif Od-Din Muslih Od-Din

(10) Probably the greatest of the Persian language poets, his best known work is *Spiritual Couplets*.

Answer: Jalal ad-Din ar- _Rumi_

(10) Disciples of Rumi, a Sufi mystic, are given this name by Westerners due to the appearance of their ritual dances.

Answer: _Whirling Dervishes_

13. Identify these early twentieth century immunologists, FTP.

(10) Along with Albert Neisser, he developed a test for the antibody produced by people infected with *Treponema pallidum*. This reaction, which bears his name, is still used as the primary test for syphilis.

Answer: August von _Wasserman_

(10) This German immunologist discovered the first effective treatment for syphilis, Salvarsan.

Answer: Paul _Ehrlich_

(10) This Russian scientist, who worked in Paris in his later life, shared the 1908 Nobel Prize with Ehrlich for his discovery of phagocytosis.

Answer: Ilya _Mechnikov_ or Elie _Metchnikoff_

14. Answer the following questions about the "lost generation," FTPE

(10) The term comes from a remark made by this writer to another writer.

Answer: Gertrude _Stein_

(5,5) Five points per answer, Stein's comment, "You are all a lost generation" was made to this author who used it as an epigraph for this novel.

Answer: Ernest _Hemmingway_ and _The Sun Also Rises_

(10) Finally, this poem by lost generation member Archibald Macleish ends with the lines "A poem should not mean but be."

Answer: _Ars Poetica_

15. Bonus: Other History

Given a treaty, name the war it ended, on a 5-10-15 basis.

A. Treaty of Ghent

Answer: War of _1812_

B. Treaty of Paris, 1856

Answer: _Crimean_ War

C. Treaty of Ancon

Answer: War of the _Pacific_

16. Identify the following members of Der Blaue Reiter, FTPE.

(10) Famous for declaring the he was one with color, he painted works like "Dance, Monster, to My Soft Song!"; "Ad Parnassum"; and "Twittering Machine."

Paul _Klee_ (CLAY)

(10) Born in Russia, he painted many Improvisations and Compositions as well as writing Concerning the Spiritual in Art in 1947, and provided the source for Der Blaue Reiter's name.

Wassily _Kandinsky_

(10) A soldier in the German army during World War I, he was later deemed "degenerate" by the Nazis. He is best known for works like Carnival (Sitting harlequin and animals) and The Beggars.

Heinrich _Campendonk_

17. Identify the following about an English king, FTPE.

(10) First, he ruled through the Great Fire and came to the throne after the collapse of the Protectorate?

Answer: _Charles II (the Second)_, The Merry Monarch

(10) Widely believed at the time, this fabrication of Titus Oates was a supposed Catholic conspiracy to kill Charles and put his Catholic brother James on the throne.

Answer: The _Popish Plot_

(10) Though he produced dozens of bastards with his mistresses, Charles was unable to produce an heir with his Portuguese princess wife. Name her.

Answer: _Catherine of Braganza_

18. Do you like to gaze longingly at binary material phase systems? Regardless of your longing, or lack thereof, answer these questions about them, 15 each.

(15) This is the mixture of two solid phases of different composition such as an alloy. It is formed when a liquid phase and a solid phase are cooled into a solid solution.

Answer: _Eutectic_

(15) This nineteenth century Yale physicist, related the the number of phases present, variables present, and degrees of freedom in an eponymous rule..

Answer: _Gibbs_ phase rule

19. 30-20-10, name the record.

(30) Released in 1967, its sleeve was the first to contain lyrics. The album took seven hundred hours to produce.

(20) The Peter Blake-designed cover featured Edgar Allen Poe, Oscar Wilde, and Albert Einstein, among others.

(10) This Beatles album includes the tracks "Getting Better," "Lovely Rita," and the title track, with reprise.

Sgt. Pepper's Lonely Hearts Club Band

20. Bonus: History, 500-1775

Identify the following Hapsburg victories of the Thirty Years War, 15 each.

(15) This first major battle of the war was fought outside of Prague on November 8, 1620. It saw Frederick V defeated by the army of emperor Ferdinand II and the Catholic League.

Answer: _White Mountain_

(15) The Hapsburg army under the command of Albrecht von Wallenstein routed the Danish forces of King Christian IV in this 1626 battle, forcing his withdrawal from the war.

Answer: _Lutter_

21. Answer the following about polarization of light for 15 each

(15) When light shines on a transparent medium at the polarizing angle, the reflected ray is completely polarized and points at 90 degrees to the refracted ray. Name this law.

Answer: _Brewster's Law_

(15)) In this representation, the various types of polarization can be represented spherically, with plane polarizations represented by the equator and the two circular types at the poles. .

Answer: _Poincare' sphere_

22. Identify the film from quotes, 30-20-10.

(30) Where are you from? - Ethiopia. - What part? – 125th Street.

(20) The only thing we Romans don't have a God for is premature ejaculation. But I hear that's coming quickly!

(10) It's good to be a king!

Answer: _History of The World, Part I_ or _Mel Brooks' History of the World_

23. Bonus: Philosophy

Identify the following medieval philosophers who contributed to epistemology, FTPE.

(10) This man, who coined the phrase "faith seeking reason", wrote the Proslogium.

Answer: _St. Anselm_ of Canterbury

(10) This Franciscan philosopher divided knowledge into four classes: simple knowledge, knowledge through experience, knowledge through actions and knowledge through the senses.

Answer: John _Duns Scotus_

(10) This fourteenth century Italian nominalist and head of the Augustinian monastic order was one of the first Christian scholars to separate theology from science in "Lectura in libra I et II sententiarum"

Answer: _Gregory of Rimini_

24. Bonus: pop culture

Identify the video game from clues for the stated number of points each.

(5) Four words: Ostrich-mounted lance fighting.

Answer: _Joust_

(10) This Nintendo sequel starring four playable characters, vegetables, and sub-space was actually a revised-for-America version of a game originally released in Japan as "Dream Factory: Doki Doki Panic".

Answer: _Super Mario Bros. 2_

(15) As a very excited, formerly deceased U.S. cavalry officer, you attempt to score by attempting to score with a bound nekkid Indian maiden while avoiding arrows and cacti in this X-rated Atari game.

Answer: _Custer's Revenge_