

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

Packet by Wisconsin (1)

Toss-Up Questions

1. It contains such arias as "Donde lieta uscì al tuo grido," "Sono andati? Fingevo di Dormire," and "O soave fanciulla." "Sì. Mi chiamano Mimi," discusses the love between the seamstress and the poet Rodolfo. Another version of this opera was produced by Leoncavallo. FTP, identify this famous opera by Puccini.

Answer: La Bohème

2. This drama opens with a conflict between Sampson and Gregory on one side and Abraham on the other. One of the title characters loves Rosaline (*) at the outset, though ends up loving the other title character, who is wooed by Paris. After the famous, lengthy "Queen Mab" soliloquy, Mercutio dies in battle cursing both the Montagues and the Capulets. FTP, identify this tragedy about two "star-crossed lovers."

Answer: Romeo and Juliet

3. These constructs are the focus of much of the work of scientists like Roger Penrose. At their outer edge of influence tremendous forces cause matter-antimatter interactions that result in (*) Hawking radiation. Surrounded by an accretion disc of matter that is constantly drawn to the center, these objects display extreme gravitational influence up to the event horizon. FTP, identify these densest objects in the universe.

Answer: black holes

4. His defeat of the Helvetians under Ariovistus and the Gauls under Vercingetorix are discussed in his text (*) *De Bello Gallico*. He appointed himself the natural successor to Marius and, at the Battle of Carrhae in 53 BCE, defeated Crassus who, along with he and Pompey, formed the First Triumvirate. FTP, identify this Roman statesman assassinated in 44 BCE by Brutus and Cassius.

Answer: Gaius Julius Caesar

5. This object originated in antiquity as a place where sacred birds of the site sat. In fact, this word means "bird." (*) Helping to delineate boundaries between the secular world and the sacred many times shrines will have corridors of dozens of these objects in a line. FTP, name these objects that are almost always red – the gateways to every Shinto shrine.

Answer: torii

6. It came from the title of a certain director's first feature film, having served as a mnemonic for a phone number he had in the San Francisco area. Its four companion digits appear in many of the director's later work. (*) These three letters denote a sound certification bestowed by Lucasfilm, and, FTP, became the title to George Lucas's first feature when combined with the number 1138?

Answer: THX

7. He fell under the influence of geologist Adam Sedgwick and naturalist John Stevens Henslow. He was also heavily influenced by Lyell's (*) *Principles of Geology*, which maintained that the earth was undergoing constant change. He made his most famous observations in the Galapagos Islands, where he studied the beaks of finches. FTP, identify this proponent of evolution who published 1859's *On the Origin of Species*.

Answer: Charles Darwin

8. It resides in the Loggia dei Lanzi in Florence. Eighteen feet tall, it was modeled over a period of years in miniature, first in wax and then in gold-plated bronze, before finally being cast in bronze. The central figure is nude except for a headpiece and a pair of sandals, and carries a sword (*) in its right hand. FTP, what is this 16th century carving by Benvenuto Cellini that holds a severed head in its left hand?

Answer: Perseus with the Head of Medusa

9. The creation of the "box" in 1900 led to a change in equipment materials, as competitors switched to the much more flexible bamboo. Revolutionized by such athletes as Bob Gutowski and Don Bragg, (*) the IAAF finally recognized it as a female sport in 1995. FTP, name this sport, most recently dominated by Sergei Bubka, who in 1991 became the first man to clear 20 feet.

Answer: pole vault

10. Fought on an island whose name means "sulfur island," this battle was prefaced with a three-month air bombardment and finally ended after the February 23, 1945 capture of (*) Mount Suribachi, during which a famous photograph of several marines raising a flag was taken. FTP, identify this fierce battle of WWII that gave the U.S. its first base in the inner perimeter of Japan's island defenses.

Answer: Battle of Iwo Jima

11. His general misbehavior climaxes in the Jackson's Island adventure, and he saves his love (*) Becky from punishment by taking blame for a ripped book. He solves the case of Dr. Robinson's death with his testimony at Muff Potter's trial and forces the trappings of high society upon his friend Huckleberry Finn. FTP, identify this title character of a novel by Mark Twain.

Answer: Tom Sawyer (accept either name)

12. In 2000, his company became embroiled in a domain-name dispute with Keith Collingridge, owner of Woldingham Saddlery & Harness Center in Southern England. He got his big break by introducing the wide tie under an equestrian (*) label in the late 60s, following it up with a preppy collection that has been his signature style for over thirty years. FTP, what American designer made "Polo" a household word?

Answer: Ralph Lauren

13. Known as Rule 22, it got its first test during a senate debate on the treaty of Versailles in 1919. Due to the two-thirds threshold needed to employ it, it was important to stop Huey Long's distribution of his (*) "Potlikkers" recipe or Strom Thurmond's reading the election laws of all forty-eight states. FTP, name this mechanism in which, now, three-fifths of congress agree to end debate, a means of ending filibusters.

Answer: bill of cloture

14. Hashimoto's disease is a malfunctioning of this gland, and exophthalmos is an indication that it is malfunctioning, since this condition is linked to (*) Graves' disease. Cretinism is a congenital defect of it, and a goiter is an inflammation of it. Along with the pituitary gland, it regulates the body's metabolism as well as controls growth. FTP what is this butterfly shaped gland located on either side of the trachea?

Answer: thyroid

15. It took its name from a Delaware chief who had welcomed William Penn and signed the treaty of Shakamaxon. It had 13 tribes, pseudo-Native American rites and rituals, (*) and took as its motto "Freedom our Rock". Early figures associated with it included Aaron Burr, but Peter Sweeney, Richard Connolly, and Oakley Hall were involved during its peak. FTP, name this New York political machine led by Boss Tweed.

Answer: Tammany Hall or Columbian Order of New York City

16. The setting is Argos, to which the characters have fled, because it is where their ancestor, Io, was born. Pelasgus has to decide between helping the protagonists and obeying (*) Aegyptus, but decides in the end to help the refugees. FTP, name this play by Aeschylus in which Danaus and his 50 daughters try to get out of a wedding.

Answer: *The Suppliant Women* or *The Suppliants* or *Hiketides*

17. American William Kelly theorized that blasting air through molten metal would not only allow oxygen to react with the impurities, (*) but would also keep it hot enough to avoid solidification. However, another man patented a better version of the same process by adding a carbon, manganese, and iron alloy after the air blast to restore the carbon content of the steel. FTP, name this first method for mass-production of steel.

Answer: Bessemer process

18. After deposing Qutuz following the Battle of Ayn Jalut, he took Antioch from the Franks, drove the Assassins from Syria, and founded a new Abbasid caliphate in Cairo. (*) According to the folk epic based on his life, he participated in his own intelligence service by going in disguise into enemy territory. FTP, name this Mamluk sultan of Egypt who reigned from 1260-1277.

Answer: al-Malik az-Zahir Rukn ad-Din Baybars al-Bunduqdari

19. His first novel, *The Mystic Masseur*, has been made into a film by the independent producer Ismail Merchant, while his novel (*) *In a Free State* won the 1971 Booker Prize. Famous for such works as *A Bend in the River*, FTP, name this author of *Among the Believers: An Islamic Journey*, the 2001 recipient of the Nobel Prize for Literature.

Answer: Vidiadhar Surajprasad Naipaul

20. The horizontal axis represents normal stress, while the vertical axis is shear stress. (*) To express a rotation in space, you must rotate through twice that angle on this circle. The maximum and minimum principal stresses lie at the far right and left ends of the circle. FTP, name this circle used for planar stress transformations and named for its 1882 inventor.

Answer: Mohr's Circle

21. It was a blend of the thinking of Ernst Mach and the concepts of Frege and Russell. The movement championed the principle of verifiability, (*) which states that a proposition has meaning only if sense experience would suffice to demonstrate its truth. FTP, what is this school of philosophy championed by the Vienna Circle, including Waismann, Goedel and Carnap?

Answer: logical positivism

22. As one of the "whiz kids" hired to revitalize Ford Motor Company after WWII, he quickly rose through the corporate ranks to become the first non-family member to be the president (*) of Ford. Years later, as head of the World Bank, he urged the United States and other NATO nations to destroy much of its nuclear arsenal. FTP, name this man who served under both Kennedy and Johnson as Secretary of Defense.

Answer: Robert Strange McNamara

23. She is met in Yalta, where her future lover resolves to include her in his next extra-marital affair. She complies and they spend a few happy weeks together before she is called back to her own husband, but (*) Gurov cannot forget her so he seeks her out and they continue their relationship. FTP, describe Anna Sergeyevna and her Pomeranian, and you'll name this short story by Chekhov.

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Bonus Questions

1. Identify the punk (or punk-influenced) rockers FTPE.

- a) This British group opened for the Sex Pistols in the summer of 1976 and later had hits like "White Riot," "London Calling," and "Rock the Casbah."

Answer: The Clash

- b) The Clash covered the Bobby Fuller Four's "I Fought The Law." Which San Francisco-area band had rewritten this song to tell the story of Harvey Milk's 1978 murder?

Answer: The Dead Kennedys

- c) Taking their name, which means "do you remember," from a Danish board game, which Minneapolis-based band released albums such as *Zen Arcade* and *Flip Your Wig*, and launched Bob Mould's solo career?

Answer: Husker Du

2. Name these works by Jewish writers FTPE.

- a) This novel takes place in tsarist Russia. It is the story of a Jewish handyman unjustly imprisoned for the murder of a Christian boy.

Answer: *The Fixer*

- b) The title character of this Chaim Potok work is a painter who creates a controversial work called *Brooklyn Crucifixion*.

Answer: *My Name is Asher Lev*

- c) This Philip Roth novel deals with the relationship between Neil Klugman and Brenda Patimkin.

Answer: *Goodbye, Columbus*

3. Identify these contemporary scientists FTPE.

- a) This dude won a Nobel Prize for his development of polymerase chain reaction, or PCR.

Answer: Kary Mullis

- b) This cool cat also won a Nobel Prize after he discovered the causative agent such diseases as Creutzfeld-Jakob, known as prions.

Answer: Stanley Prusiner

- c) Believe it or not, this dude is still alive. He won the Nobel Prize for his elucidation of the metabolic pathway known as the citric acid cycle, which is also named for him.

Answer: Edwin G. Krebs

4. Identify these Greek leaders FTPE.

- a) This Spartan defeated the Athenians at the naval battle of Aegospotami in 407 BCE. In 395 BC he lead an army against Boeotia and died at Haliartus.

Answer: Lysander

- b) This Athenian came to power in 461 BCE, and instituted a massive building project that included the Parthenon. His downfall came during the Peloponnesian War.

Answer: Pericles

- c) This king of Epirus twice defeated the Romans, at Heraclea and Asculum. The victories came at great cost to his armies, and his name lives on in an expression.

Answer: Pyrrhus

5. Identify the following about a poet FTPE.

- a) He is most famous for his work *Sketches of a Travel-Worn Satchel*.

Answer: Basho

- b) Basho was the master of what form of poetry?

Answer: haiku

- c) Give Basho's real name.

Answer: Matsuo Munefusa

6. Identify these ideas in science FTPE.

- a) This principle states that the exact position and momentum of a particle cannot be known at the same time.

Answer: Heisenberg uncertainty principle

- b) This theory, purported by Stephen Jay Gould, states that species arise in rapid bursts of evolution instead of the gradual Darwinian approach.

Answer: punctuated equilibrium

- c) This technique in chemistry won Ahmed Zewail the 1999 Nobel. It involves rapid pulses of lasers to "see" intermediate compounds in chemical reactions.

Answer: femtochemistry or femtosecond spectroscopy

7. Identify these ancient Greek statesmen F15PE.

- a) Considered the founder of Athenian democracy, this man was made archon in 594 BCE and instituted many land and governmental reforms, such as the establishment of a council, a popular assembly, and law courts.

Answer: Solon

- b) Reforms made by Solon were in opposition to this first lawgiver of ancient Greece. His name gives origin to an adjective describing a harsh system of rule. He was supposedly killed under a pile of cloaks.

Answer: Draco

8. Given a nation, identify its representative at the Congress of Vienna FTPE.

- a) Russia

Answer: Alexander I

- b) Austria

Answer: Klemens von Metternich

- c) France

Answer: Charles Maurice de Talleyrand-Perigord

9. Identify these authors and works of the 12th and 13th centuries FTPE.

- a) This work was written by Geoffrey of Monmouth. It is a source of King Arthur legends and also contains the first extant version of the story of King Lear.

Answer: The History of the Kings of Britain or Historia regum Britanniae

- b) This Norman wrote a French version of the *History of the Kings of Britain* called *Le Roman de Brut* that he dedicated to Eleanor of Aquitaine.

Answer: Wace

- c) Wace's *Roman de Brut* was translated into Middle English and further expanded by Layamon in this work, which incorporates elements of *Beowulf* and Norse mythology.

Answer: The Brut

10. Given a religious text, identify the religion it represents FTPE.

- a) *Bhagavad-Gita*

Answer: Hinduism

- b) *Tripitaka*

Answer: Buddhism

- c) *Mishna*

Answer: Judaism

11. Name these sportsmen usually known from just their sport FTPE.

- a) This former pool hustler became legendary through his rivalry with Willie Mosconi.

Answer: Minnesota Fats or Rudolf Walter Wanderone, Jr. or New York Fats

- b) Born in Carlsbad, CA in 1968, he has competed in skateboarding since 1978, and currently is CEO of a skateboard gear company of the same name.

Answer: Tony Hawk

- c) An International Grandmaster of Chess at the age of 15, he would win 8 US Championships, followed by winning virtually every match he played between 1962 and 1972, before disappearing.

Answer: Bobby Fischer

12. Identify these people whose works were important in the world of literary criticism and theory FTPE.

- a) This deconstructionist is famous for his work *Of Grammatology*.

Answer: Jacques Derrida

- b) One of his most famous works is the posthumous *Course in General Linguistics*.

Answer: Ferdinand de Saussure

- c) This author of *Writing Degree Zero* shocked the literary world when he declared “the birth of the reader must be at the cost of the death of the Author.”

Answer: Roland Barthes

13. Given a European conflict, identify the treaty that ended it FTPE.

- a) War of Austrian Succession

Answer: Treaty of Aix-la-Chapelle

- b) Boer War

Answer: Treaty of Vereeniging

- c) Seven Years' War

Answer: Treay of Paris, 1763

14. Name the following about the painting *The Arrival of the French Ambassador* FTPE.

- a) This Italian painted the work in 1735.

Answer: Canaletto or Antonio da Canal

- b) The city where Canaletto was born and where the title event takes place.

Answer: Venice

- c) In the bottom left of the painting are barges with gondolas. What color are the curtains on the gondolas, the same as the major color of the barge attendants' clothing?

Answer: red

15. Identify the following terms from meteorology FTPE.

- a) This is the horizontal transfer of any property in the atmosphere by the movement of air.

Answer: advection

- b) A small disturbance of wind in a large wind flow, which can produce turbulent conditions. Also refers to oceanic currents behaving in a particular manner.

Answer: eddy

- c) It is the region on the lee side of a mountain or similar barrier where the precipitation is less than on the windward side.

Answer: rain shadow (accept precipitation shadow)

16. Given a story about a conception, name all of the offspring produced FTSNOP.

- a) Zeus sleeps with Alcmene after appearing to her as her husband Amphytrion. Identify the two children produced FFPE.

Answer: Heracles and Iphicles

- b) Zeus mates with Leda who lays an egg from which four children are born. Name all four FFPE.

Answer: Helen, Clytemnestra, Castor, Polyduces or Pollux

17. Name these Eastern European writers FTPE.

- a) This Russian is the author of *Ruslan and Rudmilla*, a long novel based on folklore.

Answer: Aleksandr Sergeyevich Pushkin

- b) This Albanian kissed up to the Hoxha regime with works like *The Great Winter*, but is better known for *The General of the Dead Army*, about a general who goes insane while overseeing the repatriation of his soldiers' remains.

Answer: Ismail Kadare

- c) Works of this Polish science fiction writer include *A Perfect Vacuum*, which contains parody reviews of non-existent books such as *Sexplosion* and *Gruppenfuehrer Louis XVI*.

Answer: Stanislaw Lem

18. FTP each, name these bankruptcy-related "chapters."

- a) Also called rehabilitation, a federal bankruptcy court supervises a person or small business that agrees to repay a portion of its debt.

Answer: Chapter Thirteen

- b) The federal court supervises the sale of a person's or business's assets and property and disburses the proceeds to creditors.

Answer: Chapter Seven

- c) The reorganization of an insolvent corporation, which is supervised by the federal bankruptcy court. It's the one you've probably heard of.

Answer: Chapter Eleven

19. Name the following terms associated with weaving FTPE.

- a) These are the lengthwise and crosswise yarns used in a woven pattern. Identify both FFPE

Answer: warp; weft or filling

- b) This is a non-ravelling edge to a fabric formed during the weaving process.

Answer: selvages

- c) This type of weave involves attaching small strips of wood to the loom to produce geometric patterns.

Answer: dobby

20. Identify the following concerning a binary liquid mixture being heated FTPE.

- a) The point in which the mixture begins to boil.

Answer: bubble point

- b) The point in which the mixture finishes boiling.

Answer: dew point

- c) This is defined as a liquid mixture in equilibrium with its vapor when the liquid and vapor phases have identical compositions.

Answer: azeotrope

21. Identify the Romantic poem FTPE.

- a) "When my mother died I was very young,/And my father sold me while yet my tongue/Could scarcely cry 'weep! 'weep! 'weep!'" So goes this poem by Blake.

Answer: *The Chimney Sweeper*

- b) "With throats unslaked , with black lips baked,/We could neither laugh nor wail;/Through utter drought all dumb we stood!" So goes this poem by Coleridge.

Answer: *The Rime of the Ancient Mariner*

- c) "And this is why I sojourn here,/ Alone and palely loitering,/Though the sedge is withered from the lake,/And no birds sing." So goes this poem by Keats.

Answer: *La Belle Dame sans Merci*

22. Given a description name the type of magnetism FTPE.

- a) The atomic magnetic dipoles react to an external magnetic field, aligning themselves with it.

Answer: paramagnetism

- b) Changes in the orbital motion of electrons induce a weak magnetic field in the opposite direction of the applied field.

Answer: diamagnetism

- c) The quantum spins of electrons in adjacent atoms in a crystal structure match up to produce a permanent inertial magnetic field within the object.

Answer: ferromagnetism

23. Name the composers of these 20th century compositions FTPE.

- a) *Music in Twelve Parts*, the score to Robert Wilson's *Monsters of Grace*, and the album *Songs for Liquid Days*.

Answer: Philip Glass

- b) *Hymnen*, *Telemusik*, and *Gesang der Junlinge*

Answer: Karlheinz Stockhausen

- c) *Four Sea Interludes*, *An American Overture*

Answer: Benjamin Britten

24. Identify these kings of India FTPE.

- a) This famous Mughal emperor is best remembered for his construction of the Taj Mahal.

Answer: Shah Jahan

- b) This most famous king of the Maurya Dynasty converted the state religion to Buddhism after a brutal campaign of war.

Answer: Ashoka

- c) This king was the founder of the Gupta Dynasty.

Answer: Chandragupta I