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Beaver Bonspiel IX Round 1
Packet by Mike Usher (I)

Tossups

1. Upon visiting the apartment on the Boulevard Maiesherbes, the protagonist finds only John Little Bilham, but several days later he is introduced to Jeanne and Marie Vionnet, the latter of whom he later sees in a compromising position on a boat. Mamie, James, and Sarah Pocock replace the protagonist as title characters after he becomes convinced that Paris has had a beneficial effect on Chad Newsome. FTP, name this novel about Lambert Strether's diplomatic mission, written by Henry James.

Answer: The *Ambassadors*

2. In mathematics, this adjective refers to fields whose algebraic extensions are all separable, to groups that are equal to their own commutator subgroups, and to pairings between vector spaces induced by nondegenerate bilinear forms. In geology, it refers to the smoothest form of cleavage of a mineral, and in botany it refers to flowers containing both stamens and pistils. FTP, name this term also used in mathematics to refer to numbers such as 8128, 496, 28, and 6 which are the sum of their own divisors.

Answer: perfect

3. It is rarely used in Islam except at the end of each recital of the first sura, and its 77 uses in the gospels to introduce statements of Jesus have no precedent in the traditional Hebrew usage of this word derived from a root meaning "firm." Oliver Messiaen wrote a piece for two pianos entitled "Visions of" *it*, and it appears in the title of a play about a female preacher by James Baldwin. FTP, name this word sometimes translated as "so be it" used to express agreement or end prayers.

Answer: Amen

4. The only death in this play is that of the Housewife's cat, who is trampled shortly after the Logician explains to the Elderly Gentleman that because Socrates is dead he must have been a cat. Botard is skeptical of the reported cause of the cat's death but is convinced when he sees that Mr. Boeuf has been transformed, vindicating the eyewitness testimony of Daisy and Berenger. FTP, name this anti-totalitarian play by Eugene Ionesco in which everyone but Berenger metamorphoses into the titular perissodactyl.

Answer: Le *Rhinoceros*

5. Its author describes himself as a "man who forgets to eat when he engages himself in vigorous pursuit of learning," and gives a sentence-long summary of his life, mentioning that at 30 he took his stand; at 70 he followed his heart's desire without overstepping the boundaries of right; and at 50 he knew the Mandate of Heaven. It argues that a man of humanity, or *jen*, establishes himself by establishing others, and it gives a negative version of the golden rule. FTP, name this collection of conversations compiled from the sayings of Confucius.

Answer: The *Analects* (*Lun-yu*)

6. She used the pregnancy of her cousin Jeanne Lassois as a pretext for travelling to Vaucouleurs, where she met with Robert de Baudricourt and convinced him to send her on the 300-mile journey to Chinon. Miracles attributed to her include surviving a 60-foot leap from a castle tower while imprisoned at Beaurevoir and knowing the precise location of a sword buried in the Church of St. Catherine, one of three saints whose voices she had been hearing since she was 12. FTP, name this saint who led Charles VII to his coronation after lifting the siege of Orleans in the Hundred Years' War, but was later burned at the stake for heresy.

Answer: Saint Joan of Arc (Ste. Jeanne d'Arc) (accept either first or last name)

7. He appeared in *Bananas* as the narrator of the consummation of Woody Allen's character's marriage and of the assassination of the president of San Marcos, the latter of which he compared to a Clay-Liston fight. The host of most of the installments of *Battle of the Network Stars*, his unfortunate reference to Alvin Garrett as a monkey led to his 1983 retirement from *Monday Night Football*. Portrayed by Jon Voight in *Ali*, FTP, who is this legendary commentator on ABC's *Wide World of Sports*?

Answer: Howard Cosell

8. First employed in Western orchestral music in 1791 by Francois-Joseph Gossec, this instrument is lowered and raised in a tub in John Cage and Frank Harrison's *Double Music* and is the principal instrument of Karlheinz Stockhausen's *Mikrophonie I*. The flat Chinese version is sometimes called the tam-tam, and several of them are arranged into chimes called *bonang* for use in gamelan. FTP, name this large circular percussion instrument most associated with Southeast Asian music and with a 1970's television talent show.

Answer: gong

9. As an admiral, he distinguished himself at the battles of Camperdown and Copenhagen, though his most impressive sailing feat was probably his 3600-mile journey to Timor in a longboat. His 1808 imprisonment of George Johnston during his term as governor of New South Wales resulted in the Rum Rebellion, but the best known uprising against him occurred when he was involved in a scheme for transporting breadfruit trees to the West Indies from Tahiti. FTP, name this man whose master's mate Fletcher Christian set him adrift from the *HMS Bounty*.

Answer: William Bligh

10. This device existed among the Romans, but was supposedly reintroduced to Europe when Domenico Selvo, heir to the Doge of Venice, married a Byzantine princess whose use of the device was perceived by the Venetian clergy to be an insult to God and a cause of her early death. In 1611, Thomas Coryate earned the nickname Furciferus by claiming to be the first man in London to use one, but that seems unlikely since inventories of British kings as early as Henry VII included the "sucket" variety, used for sweetmeats. Becoming an important food-spearng instrument after Louis XIV banned pointed knives, FTP, what is this piece of flatware?

Answer: fork

11. Jointly with Villars, he gives his name to a technique in which a photon is momentarily assumed to have a mass in order to ensure the convergence of certain integrals in quantum field theory, and he is regarded as a founder of that subject thanks to his work with Weisskopf and Heisenberg on the quantization of wave fields. Both the Dirac equation and the quantum-mechanical theory of angular momentum are often formulated in terms of his "spin matrices." FTP, name this man who in 1940 proved the Spin-Statistics theorem, a special case of which is his eponymous exclusion principle.

Answer: Wolfgang Pauli

12. This dynasty consolidated its power by defeating rivals like Hsiao Hsieh, who proclaimed himself emperor of Liang; Yu-wen Hua-chi, who had assassinated emperor Yang-ti; and Wang Shih-ch'ung, who deposed Yang-ti's grandson but eventually surrendered to Li Shih-min at Lo-yang. Its first ruler, Kao-tsu, was responsible for its noted law code, but its best known ruler is probably Wu Hou, who usurped the throne from her son in 690. FTP, name this successor to the Sui dynasty, perhaps best known for nourishing the talents of Wang Wei, Li Po, and other poets.

Answer: T'ang Dynasty

13. Early in his life, Vishwamitra leads him to the forest, where he kills Tataka and strings the ancient bow of Shiva, which earns him King Janaka's daughter's hand. He is sent into the forest again after Kakeyi persuades Dasaratha to name Bharata as king of Ayodhya instead of him, after which a conflict stemming from his rejection of the demoness Shurpanakha's advances results in his wife's kidnapping in spite of Lakshmana's vigilance. FTP, name this avatar of Vishnu who, with help from Hanuman, kills Ravana and rescues Sita in the *Ramayana*.

Answer: Rama

14. Their first defense attorney was Chattanooga-based Stephen Roddy, who was already drunk at 9 o'clock on the first morning of the trial, and they were later defended by Samuel Leibowitz, who was hired by the International Labor Defense wing of the U.S. Communist Party. In 1976, the only surviving member of the group, Clarence Norris, was pardoned by George Wallace, having been repeatedly convicted in spite of testimony by Dr. R.R. Bridges that Ruby Bates and Victoria Price had not been raped. FTP, give the collective name for these falsely-convicted young black Alabamans.

Answer: Scottsboro boys

15. One work by this title is a bronze by Frederick Pomeroy in which the title character has a sword whose hilt is decorated with images of his wife and his enemy in his right hand and holds up an unrecognizable object in his left hand. In the version by Canova in the Vatican Museum, the sword has a hook near the end, while the most famous version includes a pedestal with statuettes of the multi-breasted Diana and the hero's father Jupiter, above which the hero stands on the body of his opponent. FTP, name this bronze by Cellini depicting the aftermath of a fight involving a Gorgon.

Answer: Perseus with the Head of Medusa (accept considerable variation in the title, as long as it contains the word "Perseus" and doesn't mention anyone else other than Medusa)

16. At birth, a large opening in the partition between two of the parts of this organ called the foramen ovale becomes blocked, and the divisions between its various parts are marked externally by the sulci. Its vascular system includes three arteries which originate from the sinuses of Valsava, and the instructions for its main function are carried through the bundle of His and the Purkinje system. Containing semilunar, mitral, and tricuspid valves, FTP, what is this organ surrounded by the pericardium?

Answer: heart

17. During a romantic tryst, Bridget and Corporal Trim break a bridge at the replica of the fortifications at Namur that has been erected by the title character's uncle, who suffered a groin injury during the recent war. Because the title character's father is an adherent of the nasal theories of Hafen Slawkenbergius and a believer in the importance of names in shaping character, he is profoundly upset when his son's nose is crushed at birth and when his servant Susannah is unable to pronounce his son's intended name of Trismegistus. FTP, name this meandering novel which begins at its namesake's conception, written by Laurence Sterne.

Answer: The Life and Opinions of Tristram Shandy, Gentleman

18. This city had no zoning laws until 1972 even though it had been growing rapidly ever since a coffee boom in the surrounding area in the 1880's, which has resulted in a massive and diverse population which today includes more Japanese people than any other city outside Japan. Its business district centers around an area called the Triangulo, and it is located in the hills of the Serra do Mar on the Tiete River 30 miles inland from Santos. FTP, name this largest city in the southern hemisphere, founded by Portuguese missionaries on the anniversary of its namesake's conversion.

Answer: Sao Paulo

19. Fantasy artist Jonathan Bowser's painting "The Awakening" was plagiarized for the cover of this author's first novel, which has been made into a musical and will soon be televised as a 20-part miniseries. That novel, *Zabibah and the King*, sold many more copies than his most recent effort, *The Fortified Castle*, in which a traitorous servant symbolizes his country's renegade 19th province, but both novels have been lavishly praised by the newspaper *al-Joumhouriya*. FTP, who is this leader of the Ba'th party depicted as Satan's lover in the *South Park* movie?

Answer: Saddam Hussein

20. He first achieved fame by arguing for an ideology of "liberal imperialism" in opposition to the Junker aristocracy in his inaugural address at Freiburg in 1895, and he would later reappear on the political scene when he helped draft the constitution of the Weimar republic just before his death. His late work included an analysis of the rationalization of bureaucracy and a comparison of Hinduism and Buddhism to the Calvinist asceticism which he believed had changed from a cloak into an iron cage. FTP, name this author of *The Protestant Ethic and the Spirit of Capitalism*.

Answer: Max Weber [VAY-ber]

21. The subject of scathing biographies by Violet Hunt and Evelyn Waugh, he was attacked as the leader of the "Fleshly School of Poetry" by Robert Buchanan after he had exhumed and published the poems that he had earlier buried with his wife Elizabeth Siddal. His ballads include "The White Ship" and "Eden Bower," and he rose to prominence after *The Germ* published "The Blessed Damozel." FTP, name this author of the sonnet sequence *The House of Life*, who was also a painter and co-founder of the pre-

Raphaelite Brotherhood.

Answer: Dante Gabriel Rossetti

22. A noted Passion Play is performed each summer in Spearfish in this state, which became home to a substantial population of Hutterites who fled to the U.S. in the 1870s. It contains the highest point east of the Rockies in North America at Harney Peak, and other attractions include Wind Cave National Park and the Mitchell Corn Palace. FTP, name this state, home to Deadwood, Vermillion, Wounded Knee, the Badlands, and Mount Rushmore.

Answer: South Dakota

23. One figure by this name was a Nereid who created the river now known as the Jaci at the base of Mount Etna out of the blood spilled when Polyphemus killed her lover Acis, a story related in a painting by Claude Lorrain and in Miguel de Cervantes' first published work. Another figure with this name appears in a William Gilbert play in which her lover is married to Cynisca, but originated in a story by Ovid about a king of Cyprus. FTP, name this woman sculpted by Pygmalion.

Answer: Galatea

24. The class of compounds named for this molecule includes vanillin, epinephrine, and tyrosine, and the molecule itself reacts with formaldehyde to yield the synthetic resin Bakelite. Its eponymous coefficient measures how effectively a chemical kills microorganisms, and its antiseptic properties became better known when, at a time when it was known as "carbolic acid," Joseph Lister used it to prevent infection during amputations. FTP, name this compound which consists of a benzene ring with a hydroxyl group replacing one of the hydrogen atoms.

Answer: phenol (accept "carbolic acid" early)

25. Flavius Josephus identified these people with the Old Testament Hebrews, but even if some Hebrews were descended from them the name probably referred only to a group of rulers who held power starting about 1630 BCE and not to an entire nation. They introduced the horse and chariot and made their capital at Avaris until being expelled by Ahmose I, who founded the 18th dynasty. FTP, name these "shepherd-kings" who controlled most of Egypt during the 15th and 16th dynasties.

Answer: Hyksos

Bonus Questions

1. Founded in the mid-19th century by a man whose original name was Mirza Hoseyn 'Ali Nuri, it preaches the unity of all the world's religions. FTP each:

a) Name this religion.

Answer: Baha'i

b) Baha'Ullah is regarded as the messenger of God whom this man predicted would usher in a new era. He took a title meaning "Gateway" after making that prediction.

Answer: the Bab (or Mirza 'Ali Muhammad' of Shiraz)

c) Upon Baha'Ullah's death, this man, his son, took over the Baha'i community and spread the faith to other continents. Like the Bab and Baha'Ullah, his writings are considered sacred by the religion.

Answer: 'Abd ol-Baha

2. It consisted of the head of an ax projecting from a bundle of rods tied together with a red strap. FTP each:

a) Name this Roman insignia of authority, which regained prominence in the 1920s.

Answer: fasces

b) Roman magistrates all had a prescribed number of fasces, each carried by one of these attendants, who accompanied the magistrate on his public appearances and punished offenders for him.

Answer: lictors

c) This emperor increased the imperial lictor escort from 12 to 24, but that didn't stop him from being assassinated after presiding over what has been described as a three-year reign of terror in the aftermath of a revolt by the governor of Upper Germany.

Answer: Caesar Domitianus Augustus (or Titus Flavius Domitianus, not that anyone will give more than a one-word answer)

3. Name these important reactions in organic chemistry, FTP each:

a) This reaction, in which a conjugated diene reacts with an alkene to form a cyclic compound, has proven useful in the synthesis of rubber and plastic.

Answer: Diels-Alder reaction

b) This reaction uses hydrazine hydrate and a base in order to reduce an aldehyde or a ketone to an alcohol.

Answer: Wolff-Kishner reduction (or reaction)

c) This reaction uses a base to convert an aldehyde to a beta-hydroxy aldehyde. It is named for the product produced in one of its simplest versions

Answer: aldol condensation

4. Answer the following about the late works of Mozart, FTP each:

a) This opera with a plot derived from fairy tales by Christoph Wieland and with libretto by Emanuel Schikaneder premiered a little over two months before Mozart's death.

Answer: Die Zauberflöte (The Magic Flute)

b) After Mozart's death, this man produced the first complete version of Mozart's *Requiem*, writing several movements himself.

Answer: Franz Xaver Sussmayr

c) Sussmayr probably also wrote the plain recitatives for this opera to texts by Pietro Metastasio and Caterino Mazzola which opened in Prague in 1791.

Answer: La Clemenza di Tito (The Clemency of Titus)

5. Name these contemporary African authors, FTP each:

a) This Ghanaian's early works such as *The Dilemma of a Ghost* and *Our Sister Killjoy* featured African characters who were educated abroad. Her more recent works include *Changes: A Love Story*, about a career woman married to a polygamous man.

Answer: Ama Ata Aidoo

b) This Nobel Laureate is known for plays such as *A Dance of the Forests* and *Death and the King's Horseman*, and also for *Poems from Prison*, written while he was incarcerated for aiding the Biafran secessionist movement.

Answer: Wole Soyinka

c) This South African dramatist is best known for *Blood Knot* and *Boesman and Lena*.

Answer: Athol Fugard

6. Identify the following about three partially-identically-named women, FTP each:

a) This queen of Palmyra conquered Egypt and much of Asia Minor and declared independence from Rome before being captured by Emperor Aurelian in 272 CE.

Answer: Zenobia

b) The title character of this novella is married to a cold, sickly woman named Zenobia but falls in love with her cousin Mattie Silver, leading to a denouement involving an intentional sled crash.

Answer: Ethan Frome

c) The Zenobia in this novel, whose setting was inspired by Brook Farm, becomes a casualty of a love triangle involving herself, Hollingsworth, and her mysterious half-sister Priscilla.

Answer: The Blithedale Romance

7. Identify the following about three partially-identically-named men, FTP each:

a) In Greek myth, this son of Semele married Ariadne after Theseus left her on Naxos.

Answer: Dionysus

b) A Dionysius of this city wrote a history of Rome from its origins to the first Punic War. The city is also the site of the original Mausoleum, one of the Seven Wonders of the Ancient World.

Answer: Halicarnassus

c) Known only by his pen-name, which is derived from the name of a character in Acts, this writer's works such as "On the Divine Names" united Neoplatonic philosophy with Christian theology.

Answer: Pseudo-Dionysius the Areopagite (just "Dionysius the Areopagite" is also enough)

8. Answer the following about evidence of Homer Simpson's homosexuality, FTP each:

a) Moe devastates Homer by removing this Weather Girls song, Homer's favorite, from the bar's jukebox.

Answer: "It's Raining Men"

b) With dolphins threatening the human race in a segment of the 11th Halloween special, Homer declares, "We can outsmart those dolphins!" on the grounds that people have invented computers, leg warmers, bendi-straws, peel and eat shrimp, the pudding cup, and this.

Answer: the glory hole

c) After a bear is seen in Springfield, Homer leads a march to insist that tax dollars be spent on bear control, using this rallying cry, which, he says, "they use every year at the Moustache Parade."

Answer: We're here! We're queer! We don't want any more bears!

9. Name these east Asian islands, FTP each:

a) This island with capital Hai-K'ou is the largest island in China other than Taiwan. It made news in early 2001 when a U.S. spy plane was obliged to make an emergency landing there.

Answer: Hainan Dao

b) This island just north of Hokkaido which separates the Sea of Okhotsk from the Sea of Japan changed hands between Russia and Japan repeatedly between 1855 and 1945, and was the site of a well-known Russian penal colony around the turn of the 20th century.

Answer: Sakhalin Island

c) This second-largest island of the Philippines is home to a large Muslim separatist movement, and is also the only habitat of the monkey-eating eagle.

Answer: Mindanao

10. Answer the following about three emperors:

a) FFP each, name the three emperors who were present at the 1805 battle sometimes called the Battle of the Three Emperors.

Answers: Alexander I of Russia, Francis I (or Franz I) of Austria, and Napoleon I of France

b) FFP, give the more common name for the Battle of the Three Emperors.

Answer: Battle of Austerlitz

c) FTP, name the treaty signed 24 days after the battle in which Austria lost several of its territories to France and to various German states.

Answer: Treaty of Pressburg

11. Answer the following about three emperors, FTP each:

a) This title character of a 1923 poem is bidden to "whip / in kitchen cups concupiscent curds."

Answer: The Emperor of Ice-Cream

b) When offered a position at the University of Chicago in 1960, this MIT professor turned it down because he was preparing to take his position as Emperor of Antarctica.

Answer: John Forbes Nash, Jr.

c) This resident of 19th century San Francisco proclaimed himself Emperor of the United States and Protector of Mexico and issued decrees calling for the dissolution of Congress, the construction of a San Francisco-Oakland Bay Bridge, and the prohibition of the word "Frisco."

Answer: Norton I (or Joshua A. Norton)

12. Answer the following about literature inspired at least partly by the historical figure Tancred of Hauteville, FTP each:

a) Tancred's life was not quite as exciting as it was portrayed in this historical epic by Torquato Tasso, in which Tancred falls in love with and accidentally kills the warriorress Clorinda.

Answer: Jerusalem Delivered (or Gerusalemme Liberata or Jerusalem Liberated)

b) Tancred was one of the principals in this military campaign, on which *Jerusalem Delivered* is based.

Answer: First Crusade

c) This author and political figure took Tancred's name for that of the title character of his Zionist novel *Tancred, or The New Crusade*, which formed the last part of a trilogy that started with *Coningsby* and *Sibyl*.

Answer: Benjamin Disraeli

13. Discussed in Genesis 11:1-9, it was intended to "weld us together, and keep us from scattering all over the world," but God foiled the plan. FTP each:

a) Name this building.

Answer: Tower of Babel

b) In this film, Maria tells the legend of the Tower of Babel to a group of workers, drawing the moral that, "the mediator between the head and the hands must be the heart."

Answer: Metropolis

c) The most famous artistic rendering of the Tower of Babel is a 1563 painting by this Dutchman, also known for "Peasant Wedding."

Answer: Pieter Bruegel the Elder

14. Identify the following parts of neurons, FTP each:

a) This term is given to the main body of the neuron, which contains the nucleus and other organelles, as opposed to the fibres which carry signals into and out of the neuron. It is also the root of the word for all of the nonreproductive cells in the body.

Answer: soma

b) These are the gaps in the insulating material which extends along most of the axon.

Answer: nodes of Ranvier

c) These branches of the neuron, which are shorter than axons and are not insulated, were traditionally assumed to be responsible for receiving impulses from other neurons, although more recent research has shown that they can also transmit impulses to other cells.

Answer: dendrites

15. It states twice that "A poem should be motionless in time," and ends with the lines, "A poem should not mean / But be." FTP each:

a) Name this poem, with a title alluding to Horace.

Answer: "Ars Poetica"

b) Name the author of "Ars Poetica," who also wrote the epic *Conquistador* and served as Librarian of Congress.

Answer: Archibald MacLeish

c) Name MacLeish's most famous play, a verse drama based on a book of the Old Testament.

Answer: J.B.

16. Answer the following about Pelops, FTP each:

a) In some accounts, this father of Pelops cooked and served him at a banquet for the gods. For this and other transgressions, he was famously punished in the underworld.

Answer: Tantalus

b) The only deity to accidentally eat part of Pelops at the banquet was this goddess, whose powers of observation were dulled by her grief over her daughter.

Answer: Demeter

c) According to Pindar, Pelops married this daughter of King Oenomaus after winning her in a chariot race against him.

Answer: Hippodamia

17. Give the genus and species name of the following organisms that are popular subjects for biological research, F5P per answer:

a) This bacterial resident of the intestinal tract which can cause poisoning by undercooked beef is used to produce some well-known restriction enzymes.

Answer: Escherichia coli

b) This nematode with about 4000 genes was the first animal to have its genome completely sequenced, and its development from fertilized egg to adult worm is known in precise detail at the cellular level.

Answer: Caenorhabditis elegans

c) This species of fruit fly was used in the famous experiments of Thomas Morgan and his collaborators which demonstrated that inherited variations between individuals could be traced to observable differences in their chromosomes.

Answer: Drosophila melanogaster

18. Name these 19th- and early 20th-century feminist leaders, FTP each:

a) This woman co-organized the Seneca Falls convention in 1848 with Lucretia Mott and shortly thereafter began a longstanding collaboration with Susan B. Anthony at the head of the women's rights movement.

Answer: Elizabeth Cady Stanton

b) This organizer of an 1850 national women's rights convention in Worcester retained her last name when she married Henry Blackwell, with whom she helped found the American Woman Suffrage Association.

Answer: Lucy Stone

c) This founder of the Women's Social and Political Union spent 40 years campaigning for woman suffrage in Britain and, like her daughter Christabel, was often arrested for her efforts.

Answer: Emmeline Pankhurst

19. Name these Canterbury Tales which center on sexual trickery, FTP each:

a) Nicholas and Alison persuade Alison's husband John that a great Flood is coming, enabling them to steal away into the bedroom. Hilarity involving a branding iron later ensues.

Answer: the Miller's tale

b) Told in response to the Miller's tale, it features a miller who tries to cheat two students out of their grain. The students contrive to get into bed with the miller's wife and daughter, who "help them grind their corn."

Answer: the Reeve's tale

c) This tale deals with a monk who, while staying with a rich merchant, seduces his wife by loaning her a hundred francs which he obtains by borrowing them from the merchant.

Answer: the Shipman's tale

20. Identify these objects in the solar system which exhibit retrograde motion, FTP each:

a) This planet essentially spins on its side, with an axis of rotation inclined at an angle of 98 degrees to its axis of revolution.

Answer: Uranus

b) The largest moon to have a retrograde orbit, this moon revolves at an angle of 157 degrees to the plane through the equator of Neptune.

Answer: Triton

c) The second-largest moon known to have a retrograde orbit, this moon orbits at a distance 3 and a half times that of any other moon of Saturn.

Answer: Phoebe

21. Name the Latin American countries that have been led by these men, FFP each:

Jacobo Arbenz Guzman

Answer: Guatemala

Getulio Vargas

Answer: Brazil

Carlos Saul Menem

Answer: Argentina

Jose Napoleon Duarte

Answer: El Salvador

Juan Vicente Gomez

Answer: Venezuela

Anastasio Somoza Garcia

Answer: Nicaragua

22. Name these Venetian Renaissance artists, FTP each:

a) This painter, whose father Jacopo and brother-in-law Andrea Mantegna were also prominent painters, is generally credited with bringing Venetian art near the level of that of Florence and Rome. His best works include "The Agony in the Garden" and "St. Francis in Ecstasy."

Answer: Giovanni Bellini

b) This short-lived student of Bellini is known primarily for such landscapes as "The Tempest" and "Pastoral Concert."

Answer: Giorgione (or Giorgio Barbarelli or Giorgio da Castelfranco)
c) Probably the most famous Venetian painter is this artist of "Sacred and Profane Love," "Rape of Europa," and the "Venus of Urbino."

Answer: Titian (or Tiziano Vecelli)

23. She claims that her broker simply acted on a previous arrangement to sell the stock in question as soon as its price fell under \$60 per share. FTP each:

a) Name this television personality and entrepreneur who faced accusations of insider trading this summer.

Answer: Martha Stewart

b) Name the biotechnology firm whose stock plummeted after the announcement of the FDA's rejection of its colon cancer drug, which was made just after Stewart sold \$228,000 of its stock.

Answer: ImClone Systems Incorporated

c) Name the friend of Stewart and former CEO of ImClone who was arrested in June on charges of insider trading and perjury.

Answer: Samuel Waksal

24. Name the following late 19th century economists, FTP each:

a) This Swedish author of *Interest and Prices* and *Value, Capital, and Rent* anticipated the work of Keynes and laid the foundations used by later Stockholm School economists such as Ohlin and Myrdal.

Answer: Knut Wicksell

b) In the strangely-titled *Mathematical Psychics*, this Irish economist introduced the indifference curve, as well as a famous eponymous box.

Answer: Francis Ysidro Edgeworth

c) This economist introduced such ideas as consumer's surplus and elasticity of demand in his famous 1890 work *Principles of Economics*.

Answer: Alfred Marshall

25. Answer the following about rigid body motion, FTP each:

a) Given a fixed axis, this quantity is determined by taking the volume integral of the density of the body times the square of the distance from the axis.

Answer: moment of inertia

b) The moment of inertia of a body may be written in the form M times k squared, where M is the mass and k is a distance given *this* name. For a uniform sphere, for instance, k is the radius times the square root of two-fifths.

Answer: radius of gyration

c) What is the kinetic energy of a one-kilogram sphere with radius 10 centimeters which is rotating about a fixed axis at a rate of 5 radians per second?

Answer: 0.05 joules or 500,0000 ergs (accept equivalents, of course)