

2013 ACF Regionals: Transmitido en Quizbowlese (“This man while traveling through the woods found bathing in a stream the naked goddess Artemis”)

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1. A highly effective catalyst for many C-C and C-X bond-forming reactions is this element complexed with a bis(oxalozine) ligand. 1,4-disubstituted 1,2,3-triazoles can be created by an azide-alkyne cycloaddition catalyzed by this element in a seminal reaction of click chemistry developed in the labs of Fokin and Sharpless. Diazonium salts are treated with the chloride of this element to create aryl halides in the Sandmeyer reaction. In hemocyanin, this element binds reversibly to oxygen molecules. This element "borrows" an electron from the 4s orbital to completely fill its 3d orbital, making it paramagnetic. This element's citrate or tartrate is used to test for reducing sugars and aldehydes in Benedict's and Fehling's test, respectively. This element is found with lithium in Gilman's reagent. For 10 points, name this element with symbol Cu.

ANSWER: copper [or Cu before it is read]

2. The beginning of Book II of the *Metamorphoses* describes one of these figures hugging whales. Poseidon gave his daughter Cymopolea in marriage to one of these figures. Pausanias relates a story in which one of them adjudicated a dispute between Poseidon and Helios over the Isthmus of Corinth. In Book I of the *Iliad*, Achilles reminds Thetis of how she summoned one of these figures, who squatted beside Zeus when Athena, Poseidon, and Hera attempted to chain him down. One of them was held to be the inventor of warships under his alternate name, Aegaeon. They threw many rocks at the Titans after Zeus freed them, along with their brothers the Cyclopes, from Tartarus. For 10 points, Gyges, Cottus, and Briareus were the names of which three giants, known for their fifty heads and hundred hands?

ANSWER: Hecatonchires [or the Centimani; or the Hekatonkheires; accept the hundred-handed ones until it is read]

3. *Echoes of Ossian* is an overture by one composer from this country. Robert Simpson wrote about the use of progressive tonality in the symphonies of one composer from this nation. One composer from here included the “Oriental Festival March” and “The Marketplace in Ispahan” in his *Aladdin Suite*. A composer born in this nation wrote cantatas dedicated to the knees and face of Christ in his *Membra Jesu Nostri*. One composer from here ended his fourth symphony with a timpani duel and included tempo indications like *Allegro sanguineo* and *Allegro collerico* in his second symphony. Those symphonies are subtitled “Inextinguishable” and “The Four Temperaments”. For 10 points, name this Scandinavian country of origin of Niels Gade, Dietrich Buxtehude and Carl Nielsen.

ANSWER: Kingdom of Denmark

4. This ruler's reign was the golden age of a poetic form practiced by Mei Sheng called the “great *fu*.” This ruler's minister Jiang Chong accused his heir apparent of witchcraft, triggering a bizarre sequence of events that ended in the tragic rebellion and suicide by hanging of Prince Ju. He was the first to establish government monopolies on wine, salt, and iron. This ruler became obsessed with acquiring mythical “blood-sweating” horses, which drove his invasion of the Fergana Valley after he had earlier incorporated northern and central Korea and much of Vietnam into his empire. This ruler, the son of Jingdi, made Confucianism the official state religion of China. For 10 points, name this greatest emperor of the Han Dynasty.

ANSWER: Wudi [or Liu Che; or Wu of Han]

5. Edwin Ray Guthrie's theory of this phenomenon was based on his idea of “contiguity,” while Julian Rotter argued that it was affected by where the “locus of control” stood along the I-E axis. A “mathematico-deductive” theory of it was based on drive reduction theory and developed by Clark Hull, while another psychologist explained it via “reciprocal determinism.” This phenomenon can be supported by “scaffolding.” The simplistic S-R theory of this phenomenon were opposed by Edward Tolman, who conducted experiments on its “latent” form. Albert Bandura created a “social” theory of this phenomenon, which behaviorists explained as conditioning. For 10 points, name this process through which humans acquire new behaviors and ideas.

ANSWER: learning [or classical conditioning until “locus of control” is read; prompt on conditioning after; accept

anything involving the acquisition of behavior]

6. One character created by this author uses a piece of wire to take a meat-bone from a mongrel, promises to himself that he will leave some meat for the dog, but then picks the bone clean. One of his characters is warned not to be at her usual milk bar when a bicycle bomb goes off in a town square as part of a scheme hatched with General Thé ["tay"]. In that work by him, books such as *The Challenge to Democracy* and *The Role of the West* by York Harding inspire a man who vies for the hand of the Vietnamese girl Phuong with the journalist Thomas Fowler. That title character is Alden Pyle. In another of this man's works, a mestizo is walked across the border by the "whiskey priest." For 10 points, name this British author of *The Quiet American* and *The Power and the Glory*.

ANSWER: (Henry) Graham Greene

7. In astronomy, this phenomenon is complemented by, and thus often used in conjunction with, the Hanle effect. This phenomenon can be used to compensate for the Doppler shift of resonance frequency when decelerating an atomic beam in a namesake type of "slower." The energy of one type of this phenomenon is proportional to the Lande g-factor, the Bohr magneton, and the quantum number m-sub-l. At high field strengths, its two types merge to give the Paschen-Back effect. Electron spin explained its anomalous type. This phenomenon can be interpreted as the precession of the orbital angular momentum vector in a certain field, and it results in the creation of a Lorentz triplet of spectral lines. For 10 points, name this effect in which the spectral lines of an atom are split in a strong magnetic field, which is analogous to the Stark effect.

ANSWER: Zeeman effect

8. This king put down a rebellion in the wake of parliament's decision to end Cornwall's exemption from taxes on 10ths or 15ths of income, defeating Thomas Flammark at the Battle of Blackheath. One statute passed under this king stated that no bill could be brought forward in the Irish Parliament without royal consent, and was known as Poyning's Law or the Statute of Drogheda. This man's first act as king was to imprison a pretender whom he had defeated at the Battle of Stoke. This king executed both Lambert Simnel, Earl of Warwick, and Perkin Warbeck prior to marrying his daughter Margaret to James IV of Scotland. This man came to power following his victory at a battle fought at Ambien Hill, and established the Star Chamber. For 10 points, name this victor over Richard III Bosworth Field, the first Tudor monarch and father of Henry VIII.

ANSWER: Henry VII

9. In this play, the unseen Shaughnessy and Harker are in a dispute over pigs trespassing into an ice pond. One character in this play blames another's time spent in second-rate hotels for the fact that he has no sense of how to make a real home. There is speculation in this play as to whether one character was walking the halls at night because a foghorn kept her up, or because she was visiting the spare room. In this last act of this play, one character performs a Chopin waltz after bringing her wedding dress down from the attic. That character in this play is self-conscious about her rheumatic hands and rants that Doctor Hardy is a cheap quack. In this play, Edmund is diagnosed with consumption while his mother Mary relapses into morphine addiction. For 10 points, name this semi-autobiographical play about the collapse of the Tyrone family by Eugene O'Neill.

ANSWER: Long Day's Journey into Night

10. The Epistle of Jude relates how this figure refused to make a direct accusation against Satan in a dispute over the body of Moses. The Eastern Orthodox Church celebrates an event in which he split a river directed by pagans against one of his sanctuaries, the Miracle of Chonae. He appeared in the form of an apparition to tell the Bishop of Siponto to build a church in his honor on Mount Gargano. A holiday named for this dedicatee of the Te Splendor hymn falls on September 29th and was traditionally associated with the beginning of autumn. In the Book of Daniel, an angel explains that this figure will step up to save Israel from a "prince of Persia." He is sometimes depicted with scales because of his role in Catholic tradition of weighing the souls of the dead. Christian tradition assigns him four roles, one of which is to lead the forces of God against Satan. For 10 points, name this archangel.

ANSWER: Archangel Michael [or St. Michael; or Micha'el; or Mikhail]

11. A protein associated with this molecule is compartmentalized by AKAP. This molecule names the regulatory sequence TGACGTCA. In olfactory sensory neurons, this molecule causes a depolarizing flux of sodium and calcium ions by activating CNG channels. Most of the effects of this molecule are mediated by a certain kinase to whose two regulatory units it binds, releasing its two catalytic subunits; that kinase is protein kinase A. In the liver and muscle, its formation stimulated by epinephrine, which enhances glycogenolysis. Like a related molecule that

contains guanosine, it is cleaved by phosphodiesterases. It was discovered by Earl Sutherland. For 10 points, name this secondary messenger that is synthesized from ATP by adenylyl cyclase.

ANSWER: **cAMP** [or **cyclic adenosine monophosphate**]

12. An obscure work by this philosopher proposes a “Nocturnal Council” as part of the government of what is to be the “second-best state.” This philosopher described his abuses at the hands of a leader he tried to advise in his lengthy *Seventh Letter*. A work written by this man recounts Epimetheus’ distribution of tools to animals rather than men to explain why men must live in communities. Leo Strauss notoriously interpreted much of this philosopher’s writing as ironic, rebutting Karl Popper’s discussion of this philosopher’s “Spell” in *The Open Society and Its Enemies*. His most famous work discusses the gradual degradation of the “five regimes,” denounces the effects of music and poetry, and champions the “philosopher king.” For 10 points, name this thinker whose political philosophy can be found in *The Republic*.

ANSWER: **Platon**

13. In one opera by this composer, a character compares her rejection by her fiancée to flowers growing extinct in a day in an aria sung while crossing a rickety bridge. Elvino takes back his engagement ring in an opera by him in which the title character sings “*Ah! non credea mirarti*”. One of his characters recalls seeing his beloved at the altar of Venus in the aria “*Meco all’attar di Venere*”. Adalgisa is entrusted with Pollione’s children in that opera by him. In one opera by him, it is discovered that the village phantom is really Amina sleepwalking. In another opera by him, the ritual cutting of a mistletoe branch is accompanied by the singing of “*Casta Diva*” by the title druid priestess. For 10 points, name this Italian *bel canto* composer of *La sonnambula* and *Norma*.

ANSWER: Vincenzo (Salvatore Carmelo Francesco) **Bellini**

14. This ethnic group’s demands were outlined in the “Program” written by the leader of the Constitutionalist Party, a man named Garasanin. It won out in the lesser-known “Pig War,” in which it successfully overcame an imperial boycott of its pork industry. Enraged partisans of this national group were informed by Western doctors that their queen was not actually pregnant in 1900, leading them to take the only sensible course remaining and brutally King Alexander to death in a 1903 coup. “Black George” led the revolution of this people against the Ottoman Empire. This people’s mythology celebrates a man named Milos who walked into an enemy’s tent under a white flag and then began stabbing him in the face. That incident occurred after a 1389 battle where this group’s Prince Lazar fell against Murad I on the Field of Blackbirds, or Kosovo Polje. Russia’s sympathies with this fellow Slavic nation proved catastrophic after its militant Black Hand group completed an operation. For 10 points, name this Balkan ethnicity of Franz Ferdinand’s assassin Gavrilo Princip, whose cultural center is Belgrade.

ANSWER: **Serbians** [or **Serbia**; or **Serbs**; prompt on “Slavs”]

15. In one poem by this author, a black woman whispers into a keyhole: “Let me in, I’m finished with praying, I’m the Revolution”. In that work by this poet, a landscape looks like a picture titled “Herefords at Sunset in the Valley of Wye” and the servants of the Great House let loose a silent scream. In one poem by this author, a worm cries: “Waste no compassion on these separate dead!”. One work by him describes the sinking of the English ship *The Marlborough*. One poem by this author of “The Star-Apple Kingdom” asks “How can I turn from [the title place] and live?”. In one of his poems, the owner of the No Pain Café, Ma Kilman, tries to heal Philoctete’s wound, and Achilles vies for Major Plunkett’s servant, Helen. For 10 points, name this writer of “A Far Cry from Africa” and *Omeros*, a Saint Lucian poet.

ANSWER: Derek (Alton) **Walcott**

16. One member of this organization voted for a proposition that would ban the proliferation of any mail that excited “prejudices of the southern states in regard to the question of slavery” while a member of Congress, and also turned down an offer to run as James K. Polk’s vice president in the 1844 election. Another member of this organization served as Andrew Jackson’s Attorney General. The official newspaper of this organization, whose members included Silas Wright and Benjamin F. Butler, was called the *Argus*. This organization grew out of the Bucktails and evolved into a more conservative offshoot known as the Hunkers. This organization, whose name was coined by Thurlow Weed, dissolved after William L. Marcy lost to William Seward in the gubernatorial race in the state it in which it was located. Led by Martin Van Buren, for 10 points, name this organization that controlled New York politics in the early 19th century, a “regency” named for a certain city.

ANSWER: **Albany** Regency

17. A painting of one of these events by Raphael includes a polygonal temple in the distance and shows a man in tights snapping a branch with his knee; that painting was based on Perugino's *Christ Giving the Keys to St. Peter*. A seated, elderly father raises his arms in a painting showing preparations for one of these events by Jean-Baptiste Greuze. A Pieter Bruegel work titled after one of *these* is dominated by yellow wheat motifs and includes two men carrying a tray loaded with pies into a feast. Titian and Tintoretto play in a string quartet, and Charles V and Suleiman the Magnificent both sit at a feast, in a Veronese painting showing one of these proceedings. A chandelier with one lit candle, some discarded clogs, and fidelity-representing dog are symbols in a painting judged to have functioned as a testament that one of these events had taken place. For 10 points, identify this religious ceremony depicted in Jan van Eyck's painting of Giovanni Arnolfini.

ANSWER: a wedding [or a marriage; or a betrothal, technically]

18. Local legend in this city holds that the extremely narrow Casa Minima house was given to a freed slave by a resident of its oldest neighborhood, San Telmo. It was the birthplace of a class of small colorfully painted buses built from cars which are known as colectivos. Its largest art museum is known as the MBNA and is located in its cultural center Recoleta. This site of Ezeiza International Airport has a downtown area which is dominated by a massive obelisk designed by Alberto Prebisch. Residents of this city are widely known as Porteños, and the tango was invented in its slums. It is located at the northeastern edge of the Pampas, where the Parana River widens into the Rio de la Plata estuary. For 10 points, name this capital of Argentina.

ANSWER: Buenos Aires

19. The performance of this type of algorithm tends to not depend on cache size, making them "cache oblivious." The time required to solve this type of algorithm is equal to a times T of n over b plus some function f of n ; the run time can then be solved based on where the latter function falls in the three cases of the master theorem. Algorithms of this type include the Cooley-Tukey algorithm for calculating the fast Fourier transform and Strassen's algorithm for matrix multiplication. A sorting algorithm that makes use of this strategy uses a pivot value; that algorithm is quicksort. Prototypical examples of these algorithms include binary search and merge sort. For 10 points, name this recursive algorithmic strategy of solving large problems by breaking them into smaller problems and combining the solutions.

ANSWER: divide and conquer algorithms [or d-and-c algorithms; prompt on recursive algorithms]

20. One character in this novel refuses to use a watch, and instead tells time by moving peas from one pan to another at a constant rate. One character in this novel runs away from home after seeing his prosecutor father condemn a prisoner to death in court. An old man in this novel enjoys spitting off his balcony at cats. One character in this novel wants people to say "Hats off!" in response to this description of a woman riding a mare down the Bois de Boulogne, the opening line of a novel he never completes. In this novel, Rambert is a journalist who wishes to escape to Paris to see his beloved, and a sermon calling the title event a punishment by God is delivered by Father Paneloux. Grand and Tarrou join a "sanitary squad" head by Dr. Bernard Rieux in, for 10 points, what novel about a deadly outbreak of disease in Oran, by Albert Camus?

ANSWER: *The* Plague [or *La* Peste]

Tiebreaker. During this man's presidency, the Supreme Court ruled laws prohibiting blacks from serving on juries unconstitutional. The Supreme Court also ruled that any state law mandating equal accommodations to blacks and whites on railroads was unconstitutional. This man sent in federal troops to help end a strike that saw fighting in Martinsburg, West Virginia. This man vetoed on law that required the Treasury to purchase two-million dollars' worth of silver. This man's firing of Alonzo Cornell and his presidential successor were opposed by Roscoe Conkling. Specie payment resumed under this president, whose Secretary of the Treasury was John Sherman. This president vetoed the Bland Allison Act. He defeated Samuel Tilden to become president. For 10 points, name this Ohioan president whose ascendancy to the presidency through the Compromise of 1877 ended Reconstruction.

ANSWER: Rutherford B. Hayes

1. The unique properties of this phenomenon include a continuous spectrum extending up to the X-ray region, great intensity and a high degree of polarization. For 10 points each:

[10] Name this type of radiation emitted by electrons moving circularly in a magnetic field at relativistic speeds, an analog of cyclotron radiation.

ANSWER: synchrotron radiation [or SR; or magnetic bremsstrahlung radiation]

[10] These insertion devices used to produce synchrotron radiation consist of a series of short bending magnets with alternating field excitation. They can be multipole, have K much greater than one and have many closely spaced harmonics.

ANSWER: multipole wiggler magnets [do not accept or prompt on "undulator"]

[10] An electron traveling at relativistic speeds is traveling at a speed approaching this maximum speed limit of the universe that is approximately three times ten to the eight meters per second.

ANSWER: speed of light [or c]

2. At the capture of Sirmium, this man acquired a crippled Moorish dwarf named Zerco, whom he constantly ridiculed. For 10 points each:

[10] Name this ruler who inherited an empire from his uncle Rugila, which he co-ruled with his younger brother until that brother murdered him in 445.

ANSWER: Bleda

[10] Bleda was the elder brother of this Hun whose forces killed Theodoric I at the Battle of the Catalaunian Plains, though they were forced to turn back. Pope Leo I later persuaded this "Scourge of God" not to attack Rome.

ANSWER: Attila

[10] This Roman general fought a civil war against Bonifacius before uniting with the Visigoths to defeat Attila at the Battle of the Catalaunian Plains.

ANSWER: Flavius Aetius

3. One of this director's last films was an adaptation of *Boris Godunov* in which he starred in the title role. For 10 points each:

[10] Name this Soviet director who adapted work by Mikhail Sholokhov for his *Destiny of a Man* and starred as Pierre Bezukhov in his own seven-hour adaptation of *War and Peace*.

ANSWER: Sergei Fedorovich Bondarchuk

[10] Bondarchuk's daughter Natalya starred in *Solaris*, a film by this director. His other works include *Stalker* and *Andrei Rublev*.

ANSWER: Andrei Arsenyevich Tarkovsky

[10] Bondarchuk and Tarkovsky emerged a generation after this early Soviet director of radically edited and influential political films such as *Strike* and *The Battleship Potemkin*.

ANSWER: Sergei Mikhailovich Eisenstein

4. This author wrote about the potential romance between Harry Beecham and the tomboyish Sybylla Melvyn in *My Brilliant Career*. For 10 points each:

[10] Name this author who bequeathed her estate to fund a literary award for the best novel or play depicting Australian life.

ANSWER: (Stella Maria Sarah) Miles Franklin

[10] This author of *The Playmaker* won the Miles Franklin award for *Bring Larks and Heroes*. He was shortlisted for the Booker Prize for fictionalizing the life of Jimmy Governor in *The Chant of Jimmie Blacksmith*.

ANSWER: Thomas (Michael) Keneally

[10] Keneally is perhaps best known for a novel about this German industrialist, who saved over a thousand of his Jewish factory employers during World War II.

ANSWER: Oskar Schindler

5. Nutrients pass through the inner lining of this organ and into the bloodstream through its vili. For 10 points each:

[10] Name this organ of the digestive system, which further breaks down nutrients that enter it from the stomach. It is divided into parts such as the ileum and jejunum.

ANSWER: small intestine

[10] Cholera is one myriad infectious diseases that affects the small intestine. *V. cholerae*, like many other Gram-

negative bacteria, contains in its cell wall this molecule that consists partly of an O antigen and lipid A.

ANSWER: **LPS** [or **lipopolysaccharide**; or **lipoglycans**]

[10] Aggregated lymphoid follicles form these structures that are the immune sensors of the small intestine. They are surrounded by follicle-associated epithelium which contains M cells.

ANSWER: **Peyer's patches**

6. The protagonist of this novel establishes a medical office in a fictional poor Paris suburb called La Garenne-Rancy. For 10 points each:

[10] Name this novel which innovatively employed vernacular speech and extensive use of ellipses in describing the adventures of Ferdinand Bardamu.

ANSWER: **Journey to the End of the Night** [or **Voyage au Bout de la Nuit**]

[10] *Journey to the End of the Night* was written by this racist French author. His other novels include *Death on Credit* and *Castle to Castle*.

ANSWER: Louis-Ferdinand **Celine**

[10] This American novelist wrote an essay about Celine's influence on his own works, which include *Cat's Cradle* and *Slaughterhouse-Five*.

ANSWER: Kurt **Vonnegut, Jr.**

7. A British legend holds that a traveler whose horse lost a shoe could leave the horse at a cave named for this god's "smithy" and it would be reshod. For 10 points each:

[10] Name this Germanic and Norse smith, credited with creating such swords as Almace, Mimung, and Curtana.

ANSWER: **Wayland** the Smith [or **Volundr**; or **Welandaz**; or **Wiolant**; or **Velentr**]

[10] Wayland also forged the sword Durandal, which was legendarily wielded by this chief paladin of Charlemagne. His namesake *Chanson* relates his death at Roncesvalles, where he blows his horn Oliphaunt so hard his head explodes.

ANSWER: **Roland** [or **Orlando**; or **Hruodland**]

[10] Wayland was lamed and imprisoned on the island of Saevarstadir by this asshole, but got his revenge by killing this king's sons and turning their skulls into drinking cups, then marrying his daughter Bodvild.

ANSWER: **Nidudr** [or **Nidhad**; or **Nidung**]

8. Name some voting theorists, for 10 points each:

[10] This economist's namesake impossibility theorem states that a rank-order voting system can't translate individual preferences into a consistent ranking for the entire voting population without breaking a set of criteria that includes Pareto efficiency.

ANSWER: Kenneth **Arrow**

[10] This theorist's namesake law argues that plurality voting systems tend to result in a two-party political system, while proportional representation voting promotes the creation of third parties.

ANSWER: Maurice **Duverger**

[10] This man's namesake model published in the *Journal of Political Economy* tries to resolve free riders through the concept of "feet voting," where people will move to areas that match their preferences for local government spending.

ANSWER: Charles **Tiebout**

9. Blue Dextran is commonly used to determine the void volume in this technique. For 10 points each:

[10] Name this technique that uses beads with pores of known size to separate and identify molecules based on the time it takes to pass through those pores.

ANSWER: **size-exclusion chromatography** [or **gel-filtration chromatography**; or **gel-permeation chromatography**; or **molecular sieve chromatography**; or **molecular exclusion chromatography**; prompt on **chromatography**]

[10] The mobile phase in size-exclusion chromatography is one of these types of substances that tends to stay in a narrow pH range. They usually consist of a weak acid and its conjugate base.

ANSWER: **buffers**

[10] This is the time between injection and detection of the analyte in chromatography.

ANSWER: **retention** time

10. One member of this family created a monopoly on European copper mining and used his money to build an

enclave of housing for the poor in Augsburg. For 10 points each:

[10] Name this wealthy German family, which gave Charles V the money he used to bribe his way to Holy Roman Emperor-dom.

ANSWER: the **Fuggers**

[10] In medieval Europe, moneylending was often the province of these people, since usury was forbidden to Christians. Their property was occasionally confiscated by needy monarchs, and they were notably persecuted in Spain under the Alhambra Decrees.

ANSWER: **Jews**

[10] Christians who preferred not to borrow money from Jews could instead go to these banks, which were really pawn shops and technically not prohibited. Prominent in Cahors, they originated in a certain region of Italy.

ANSWER: **Lombard** banks

11. In this piece, a triplet ostinato in the pianist's right hand represents the hoofbeats of a horse. For 10 points each:

[10] Name this *lied* in which a singer portrays the narrator, the father, his sick child, and the title supernatural creature that tries to entice the child to join him.

ANSWER: "Der **Erlkönig**" [or "The **Erlking**"; or "The **Alder-King**"]

[10] "Der Erlkönig" is one of many *lieder* by this Austrian composer, who set Wilhelm Müller's poetry in the cycles *Die schöne Müllerin* and *Die Winterreise*.

ANSWER: Franz (Peter) **Schubert**

[10] This recently-deceased German lyric baritone, purportedly the most recorded singer of all time, was known for his recordings of Schubert *lieder*. Gerald Moore frequently served as his accompanist.

ANSWER: Dietrich **Fischer-Dieskau**

12. Name these female painters, for 10 points each:

[10] This American-born Impressionist is best known for her paintings depicting women and their children, such as in *The Child's Bath*.

ANSWER: Mary **Cassatt**

[10] This Swiss-born artist did most of her work in Britain, where she joined Joshua Reynolds and others in helping found the Royal Academy. Her best-known painting might be *Cornelia, Pointing to Her Children as Her Treasures*.

ANSWER: Angelica Katharina **Kauffmann**

[10] This Renaissance artist from Bologna was married to the artist Gian Paolo Zappi. She made a portrait of the Gozzadini family and also painted a *Noli Me Tangere*.

ANSWER: Lavinia **Fontana**

13. In this work, the ex-bookkeeper Homer Simpson beats up Adore Loomis. For 10 points each:

[10] Name this novella in which a Hollywood background painter, Tod Hackett, falls in love with Faye Greener. It ends with a riot at Kahn's Persian Palace Theater.

ANSWER: *The **Day of the Locust***

[10] This American author wrote *The Day of the Locust* and a short novel about the title advice columnist, *Miss Lonelyhearts*.

ANSWER: Nathanael **West** [or Nathan von Wallenstein **Weinstein**]

[10] In *The Day of the Locust*, Miguel and Earle engage in this sport in Homer's garage, leading to the death of Hermano.

ANSWER: **cockfighting** [accept obvious equivalents]

14. Major Kenji Hatanaka led a failed coup the night before this occurred. For 10 points each:

[10] Name this event, which the Kyujo Incident attempted to stop from occurring. The "Jewel Voice" broadcast announced to the people that this action had been taken

ANSWER: **Japanese surrender** at the end of World War II [or equivalents; or **Japan's** acceptance of the **Potsdam Declaration**]

[10] This Showa emperor ruled Japan at the end of World War II. Viscount Saito and finance minister Takahashi were killed in the February 26 incident during this emperor's reign.

ANSWER: Emperor **Hirohito**

[10] Earlier during Hirohito's reign, this agreement was signed shortly before the beginning of the Second Sino-Japanese War. According to this agreement, General Yu Xuezhong was to be dismissed and all Kuomintang military forces be withdrawn from Hopei.

ANSWER: **He-Umezu** Agreement

15. This essay argues that “Kant’s individualism” can often lead to a “pure totalitarian doctrine” in its fifth section, “The Temple of Sarastro.” For 10 points each:

[10] Name this Oxford lecture published in 1958, which distinguishes between “positive” and “negative” ideas about freedom.

ANSWER: **“Two Concepts of Liberty”**

[10] “Two Concepts of Liberty” was written by this Russian philosopher, who put his opposition to tyranny into practice by smuggling *Dr. Zhivago* out of the USSR. He also wrote “The Hedgehog and the Fox.”

ANSWER: Isaiah **Berlin**

[10] Berlin argued that Vico, Hamann, and Herder represented a counter-trend to this 18th-century philosophical movement. It celebrated human reason and contributed to the American and French Revolutions.

ANSWER: the **Enlightenment**

16. This poem opens: “I have lived long enough, having seen one thing, that love hath an end” and describes a figure who “came flushed from the full-flushed wave.” For 10 points each:

[10] Name this poem addressed to the title Roman deity. Its last line claims “there is no God found stronger than death; and death is sleep”.

ANSWER: **“Hymn to Proserpine”**

[10] “Hymn to Proserpine” is a poem by this British writer, who included it in his collection *Poems and Ballads*. This writer of *Atalanta in Calydon* also invented a poetic form known as the roundel.

ANSWER: Algernon Charles **Swinburne**

[10] Another poem by Swinburne describes the triumph of this entity, which is present “before our lives divide for ever.” A poem by Andrew Marvell asks “Had we but world enough and” this entity.

ANSWER: **time**

17. Name some cities in Tennessee, for 10 points each:

[10] The Tennessee River also passes through this city near the Great Smoky Mountains. It’s the site of the University of Tennessee’s flagship campus and the location of the 1982 World’s Fair, for which the Sunsphere here was built.

ANSWER: **Knoxville**

[10] This suburb of Knoxville contains the national laboratory that grew from the “Dog Patch” site of the Manhattan Project and contained the world’s fastest computer, Jaguar, until 2010.

ANSWER: **Oak Ridge**

[10] This fourth-largest city in the state borders Georgia and sits on the Tennessee River, which is dammed at Chickamauga Lake just north of this city that was immortalized in a Glenn Miller track about a train trip.

ANSWER: **Chattanooga**

18. The spectra of these features exhibits a silicon II line at 6150 angstroms, and their light curves feature a second peak twenty to thirty days after the initial peak. For 10 points each:

[10] Name these features created by the runaway fusion of carbon and oxygen into iron.

ANSWER: Type **Ia supernovae** [prompt on Type I **supernovae**]

[10] The spectral lines of all type I supernovae are lacking in this element, the most abundant in the universe.

ANSWER: **hydrogen** [or **H**]

[10] The process by which supernovae form elements heavier than iron and nickel is given this name. A type of this process occurred after the Big Bang to form helium and lithium and it generally involves protons and neutrons undergoing fusion to form heavier nuclei.

ANSWER: **nucleosynthesis**

19. During this election John Eaton wrote the *Letters from Wyoming*. For 10 points each:

[10] Name this presidential election that John Quincy Adams won due to a “corrupt bargain.”

ANSWER: presidential election of **1824**

[10] This Georgian finished third in the election of 1824. Although in poor health, the last national caucus in U.S. History chose this man as the official Democratic Republican candidate in 1824. He had earlier served as Monroe’s Secretary of the Treasury.

ANSWER: William **Crawford**

[10] The election of 1824 is commonly viewed as the last election before the formation of this party system that was ushered in by the election of 1828. Dominated by the Whig-Democrat rivalry, this party system ended with the ascendancy of the Republican Party.

ANSWER: **Second** Party System

20. The first phrase in this passage, “Ik Onkar”, was essentially ripped off for the name of Eckankar, a Minnesota-based religious movement focused on “the light and sound of God”. For 10 points each:

[10] Identify this opening passage of the *japji* prayer. It is also the opening passage of a text which received a spiritual promotion, of sorts, from the successor to Tegh Bahadur.

ANSWER: the **Mul Mantar** [or **Mul Mantra**]

[10] The Mul Mantra appears in the Adi Granth, a sacred text which is also the eleventh and final Guru of this Asian religion, which was founded in Punjab in the fifteenth century by Guru Nanak.

ANSWER: **Sikhism** [or **Sikkhi**; accept word forms]

[10] The Adi Granth was compiled by this son of Ram Das, the fifth Sikh Guru, who was executed on the orders of Jahangir.