Chicago Open 2013: No Subtext, Just Tacos
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Tossups:
1. This man used the line "It must look democratic, but we must control everything" to explain his plans to his namesake "Group" of exiles, who were collectively flown into the country from the Hotel Lux. Citizens of this man's country called the "Palace of the Republic" the "Ballast of the Republic" to mock his famously squeaky voice, the product of a diphtheria infection. The Stalinallee was the site of a rising against this man, who refused to send his troops into Hungary. The "New Course" was imposed on this target of a (*) June, 1953 workers' uprising. This man took control of the KPD after Ernst Thalmann's death. This builder of the "New Economic System" proclaimed, "No one intends to" perform his most famous action shortly before he did it, thereby provoking Lucius Clay to initiate a tank standoff with the Soviets. During his rule, Erich Mielke became head of the Stasi. For 10 points, name this First Secretary of the East German Communist party, who built the Berlin Wall.
Answer: Walter **Ulbricht**

2. Robert Sears' work on this theory was influenced by the behaviorism of Clark Hull. Walter Mischel's "cognitive" version of this theory incorporates his five "person variables." This theory draws on the "four factors" identified in 1941 by Miller and Dollard. Burgess and Akers integrated this perspective with Sutherland's differential association theory to create a general theory of crime. A theorist working in this perspective created a scale that goes from I for internal to E for external to quantify where people see their (*) "locus of control;" that psychologist was Julian Rotter. This theory explains the interaction between an individual and his environment as "reciprocal determinism" and holds that "vicarious reinforcement" can occur through "modelling." For 10 points, name this perspective pioneered by Albert Bandura which holds that people acquire behavior by observing those around them.
ANSWER: **social learning** theory [or **social cognitive** theory; prompt on general answers like **learning**]

3. At one point in this play, an idol is said to have magically turned around in disgust and needs to be cleansed in seawater. Near the end of this play, three people attempt to escape on a ship by tricking the rest of the populace into covering their eyes. The forces of King Thoas capture two men who had slaughtered cattle in this play, and subject them to a rule requiring foreigners to be killed. One character in this play comes to the title land to (*) steal a statue of Artemis, which he must take to Athens in order to propitiate the Furies, and offers to stay and die in place of Pylades. This play begins with the title character having a dream which portends the arrival of her brother Orestes. For 10 points, name this Euripides drama about the fate of a daughter of Agamemnon who was whisked away from being sacrificed.
ANSWER: *Iphigenia in Tauris* [or *Iphigeneia e en Taurois*]

4. One holder of this position was afflicted by a namesake "aphasia," composed a prayer to the sun deity begging for the end of a plague, and wrote the largely-surviving *Ten-Year Annals*. Another one of these people had a book about his "Manly deeds" compiled by his son and wrote some angry letters to Ay over the failure of his bid to marry the widowed queen Dakhamunzu. The ashes of these figures may have been buried in the "stone house" and their capital was sacked by Anitta of Kussara. A man with this title deposed King (*) Tushratta in a surprise invasion that reduced the Mitanni Kingdom to a vassal state. The Edict of Telipinu regulated the succession of these people. One of these figures notably signed a peace treaty with Ramses II twenty years after another one fought the Battle of Kadesh. For 10 points, name this group of rulers descended from Hattusili I, including Mursili II and Suppululiuma I, who controlled an ancient Anatolian empire.

ANSWER: **King** of the **Hittites** [or **emperor** of the **Hittites**; or **High Priest** of the **Hittites**; or **ruler** of the **Hittite Empire**; prompt on **Hittite Priests** since the king was also chief priest; prompt on **kings** or **Emperors**; prompt on **Hittites**]

5. In one game released for this system, the bandit Kurai tries to escape prison to reunite with Akara. Besides that game, *Dying Eyes*, other RPGs for this system include *Reign of Legends* and *Desolate*. One game that achieved its greatest popularity on this system displays messages such as "PIGS MADE A BIG COKE BUST! PRICES ARE OUTRAGEOUS!!!!" That game was a port from MS-DOS which caught on in a version for this system and is called *Drug Wars*. This was also the first system where one could play a 2D sidescrolling game where the title character picks up squares by walking sideways into them in order to clear a path to the door, called (*) *Block Dude*. In December 2012, an unauthorized version of *Portal* was released for this system, which can be natively programmed in a BASIC-like language but requires the use of assembly language for large games, and cannot put more than sixteen kilobytes of code into memory at once. For 10 points, name this gaming platform popular with high school students, whose most popular programs are not games at all but rather scripts for calculating the roots of functions.
ANSWER: the **TI-83** [or **Parcus**; or **TI-83** plus; or **TI-84**; or **TI-84** silver edition (they all run the same OS/games); **TI-82** or **TI-81** are probably correct since they run most of the same programs as well, though no one is going to say those; prompt on **graphing calculator**]

6. Laurie Kirby and Jeff Paris showed that it is not possible to prove that every Goodstein sequence terminates at zero in this system; Paris and Leo Harrington used model theory and the condition that the cardinality of x is greater than or equal to its minimum to show that a strengthened finite Ramsey theorem is true in this system, but is similarly unprovable. Unlike a weaker version invented by Pressburger that omits(*) multiplication, this system is not decidable. A proof that defined a quantity epsilon sub zero using transfinite induction was used to attempt to answer Hilbert's second problem; that proof by Gerhard Gentzen demonstrated this system's consistency. One statement in this system defines a "successor" function that is used in definitions of induction, others give the properties of the equality relation, and the first of these define zero as part of the set. For 10 points, name this set of axioms defining the natural numbers, invented by an Italian.
ANSWER: **Peano** axioms or postulates or arithmetic [accept **Dedekind-Peano** axioms/postulates or **first-order arithmetic**]

7. In the recapitulation of this work's first movement, the full second theme appears only in distorted form as a horn solo in half notes. The beginning of that movement's recapitulation is marked *Maestoso (Alla marcia)* and features the soloist playing staccato eighth-note chords while the main theme is played by the violins and violas in unison. The second and third movements have introductions that modulate to and from the key of E major, respectively, and excerpts from this piece feature prominently in (*) David Lean's film *Brief Encounter*. The E-major principal theme of the second movement is introduced by a clarinet accompanied by the arpeggios in the solo part, and the first movement opens with a series of bell-like chords and low F's in the solo part. For 10 points, name this C-minor work for piano and orchestra by Sergei Rachmaninoff.
ANSWER: **Piano Concerto** no. **2** in C minor, op. 18 [**Rachmaninoff** required before mentioned; prompt on "**Rach 2**"]

8. Several of these things are described by the bird-monster Nemglan, including one regarding the direction of travel around Brega and another about sleeping in a house that has fire visible from the outside. One of these things regarding invitations to feasts led to the sons of Usna losing their protector. Nine of these are given to Conaire Mor in *The Destruction of Da Derga's Hostel*. (*) Connla was given one of these things involving telling any men his name, and a prominent one is broken when a crone offers a meal to a traveler, causing Cu Culain to eat dog meat. For 10 points, identify these burdensome taboos which are placed on heroes in Irish mythology.
ANSWER: **geis** [or **geas** or **gessi** or **geasa**]

9. Rare-event detection in this technique can be used to find fetal components in the maternal blood, and methods of data reduction in this technique include spectral clustering. WinMDI and FLAME are programs used to visualize the results of this technique. Data from this technique is often shown after "gating" on a two-dimensional scatter plot. Combining this procedure with FISH is a common method of quantifying (*) telomere length, and using propidium iodide in this technique is used to assay for viability and genome size. A front-scatter and side-scatter detector are used in tandem in this technique, where the sample is broken up into small droplets and passed through a capillary with a perpendicular laser. A variation of this technique in which droplets are charged can be used to sort individual cells and is called FACS. For 10 points, name this technique in which fluorescently-labeled cells are streamed through an apparatus that characterizes them by surface markers.
ANSWER: **flow cytometry** [accept **FACS** or **Fluorescence activated cell sorting** before mention]

10. A poet who wrote exclusively about the inhabitants of a northwestern city of this country did so in such volumes as *Difficult Situations* and *For the Shortcut*. In the nineteenth century, a Jewish author from this country described Efrain's heartbreak after returning home from medical school in London to see his cousin in the romance *Maria*. One author from this country wrote a "gothic tale from the hot lands" before a series including *Snow of the Admiral* and *The Tramp Stamer's Last Port of Call* featuring the recurring character of (*) Maqroll the Lookout. This home country of Luis Carlos López, Jorge Isaacs, and Álvaro Mutis is also home to an author who wrote a novel where everyone is ordered to wake up at three in the morning in order to distract a politician from the beautiful Manuela Sanchez, and a man who may be 232 years old is eaten by vultures. For 10 points, name this country where novels such as *The Autumn of the Patriarch* and *Love in the Time of Cholera* were written by Gabriel Garcia Marquez.
ANSWER: **Colombia**

11. A Kenyon Cox portrait of this artist alludes to his own work by depicting him in profile, employing his non-traditional additive technique to a clay bas-relief. This artist's design of a torch-bearing nude in strong contrapposto was overturned after winning a commission, engendering this artist's long-running feud with Charles Barber. Eugenia Anderson modeled for a gilded statue of victory holding a palm frond that this man made, which stands next to an equestrian statue in Manhattan's Grand Army Plaza. Liberty strides forward with an olive branch on the (*) obverse of an object this man designed. This man founded an influential art colony in Cornish, New Hampshire. This artist of the *Standing Lincoln* in Lincoln park created a cast bronze sculpture in which soldiers march around the title equestrian as Victory flies overhead. For 10 points, name this beaux-arts sculptor of a namesake Double Eagle coin, as well as memorials to William T. Sherman and Robert Shaw.
ANSWER: Augustus **Saint-Gaudens**

12. During the election of 1940, Franklin Roosevelt frequently referred to "Martin, Barton, and" a congressman with this name to mock Republican isolationism. A more famous man with this name dispatched the *USS Alaska* and James Milton Turner to negotiate an end to the Liberian-Grebo war. A killer with this name, nicknamed "Albert," was known as the "Boogey Man" for his serial cannibalism of children like Grace Budd. This name was held by a cabinet official who organized a plan to annex the (*) Dominican Republic that was torpedoed by Charles Sumner. That man managed to diffuse an incident in which a US warship was captured on its way to supply Cuban rebels, the Virginius affair. A man with this name negotiated the Treaty of Washington, which gave the US a 15 million dollar payment from Great Britain for building warships for the Confederacy. For 10 points, give the name of the politician who resolved the Alabama claims, the Secretary of State under Ulysses Grant.
ANSWER: Hamilton **Fish** [or Hamilton **Fish** III; or Hamilton Howard **Albert Fish**]

13. One of this philosopher's treatises uses the training regime of Ischomachus as an example of proper leadership. Another of his tracts includes discussions of the quality of Callias's love for Autolycus and a praise of another man's skill as a pimp. He wrote another dialogue in which a man is praised as "more free, more just, or more sound of mind" than any other by the Oracle of Delphi, and resolves to avoid senility by accepting death. This philosopher wrote a guide to previous philosophical works in his (*) *Memorabilia* and discussed the management of households in his *Oeconomicus.* His most important philosophical works are the non-Platonic versions of the *Symposium* and

Apology. For 10 points, name this philosopher, who may be better-known for historical works such as his biography of a Persian king, the *Cyropaedia,* and the chronicle of the retreat of the Ten Thousand, the *Anabasis*.
ANSWER: **Xenophon**

14. One part of this poem is a reference to Joseph Goebbels's claim that the failing Nazis would "slam the door" on the world. Inspired by a stay in the Yorkshire Dales, this poem describes statues which "doubt antimythological myth." This poem mentions people who move "at times arm in arm, but never, thank God, in step" and those who, "really reckless," were tempted by "the (*) oceanic whisper: 'I am the solitude that asks and promises nothing.'" Near its end, the speaker states that "when I try to imagine a faultless love or the life to come, what I hear is the murmur of underground streams." For 10 points, name this poem that begins "If it form the one landscape that we, the inconstant ones, are consistently homesick for, this is chiefly because it dissolves in water," written about karst topography by W.H. Auden.
ANSWER: "**In Praise of Limestone**"

15. Psalm 1 compares a righteous man to one of these objects. In the Book of Judges, Jotham tells a story in which these things decide on their king to criticize the Shechemites' choice of Abimelech. King Nebuchadnezzar has a dream about one of these objects that Daniel interprets to mean Nebuchadnezzar will eat grass. In Luke, Jesus asks to stay at the house of the tax collector who used one of these to see him, (*) Zacchaeus. This kind of object appears on both sides of the River of Life near the end of the Book of Revelation. Jesus compared his words about another of these items to a command for a mountain to throw itself into the sea; while hungry, Jesus cursed that one for not giving him food. For 10 points, name this type of of living organism that bore the knowledge of good and evil in the Garden of Eden.
ANSWER: **tree**s [or fig **tree**s; or sycamore **tree**s]

16. In quantum field theory, the location, but not the value, of the pole of the propagator corresponds to this quantity. Particles without this property and spin greater than one cannot have a charged Lorentz-covariant current by the Weinberg-Whitten theorem. Virtual particles are not on the hyperboloid shell named after this quantity. For a fermion, this quantity arises due to Yukawa coupling. For an electron, one form of this quantity is equal to two times the (*) Rydberg constant times Planck's constant divided by c alpha squared. The energy difference between the vacuum and the next highest level is the gap named for this quantity. Neutrino oscillations demonstrate that neutrinos have a nonzero value for this quantity. This property is imparted on particles by the spontaneous symmetry breaking of the Higgs field. For 10 points, name this quantity, which when multiplied by the speed of light squared gives energy.
ANSWER: **mass**

17. This artist may have intended an homage to the Virgin Mary with a still-life in which a plate full of lemons, a basket of oranges, and a cup of water with a rose in its saucer are spaced at equal intervals. The elderly title character of another of this artist's paintings instructs a young novice in the ways of his religious order as hooded, white-robed monks prepare for a meal. He unusually showed four nails rather than three used to crucify Jesus in his painting of *Christ Crucified*. *St. Hugh in the Refectory* is one of many paintings this man did for the Carthusians. This artist also painted a hooded monk with ripped robe clutching an upside-down (*) skull up to his chest in a painting of a saint "in meditation." The title saint of a painting by this artist wears a badge of the Mercedarians and slumps his head to the right as he dies with both of his arms tied to a tree by ropes. For 10 points, name this artist of *The Martyrdom of Saint Serapion* and many paintings of Saint Francis, a Baroque Spanish painter from Seville.
ANSWER: Francisco de **Zurbaran**

18. An azide-nitrile coupling using a variation of this reaction generates an organocatalyst in situ from NMP and was developed by Kappe and Cantillo. Ushijima's modification of this reaction

performs a workup using idoine in ammonia to synthesize nitriles. This reaction performs the same chemical transformation as the hexamine-using Sommolet reaction and the Reimar-Tiemann reaction. This reaction only works on electron-rich reactants, and for anthracene, it gives exclusive addition to the 9-position. This reaction's namesake reagent is generated in situ and consists of an (*) iminium ion single bonded to a chlorine atom, and that is generated after a lone pair on a carbonyl group attacks an electron-poor phosphorous center. For 10 points, name this doubly-eponymous reaction in which an arene is formylated using phosphorus oxychloride in dimethylformamide.
ANSWER: **Vilsmeier-Haack** Reaction

19. This man wrote a novel laid out largely in two columns, with the left column in bold type representing Frank Cahill's internal monologue and the right, in regular type, the third-person narrator. This author of *Alnilam* compared the whistling of his dying mother to the men who performed on the wings of airplanes at barnstorming shows in a poem about the "thousand variations of one song." He read the line "Moth-force a small town always has" at the beginning of the poem he composed for the (*) inauguration of Jimmy Carter. This poet of "Buckdancer's Choice" and "Strength of Fields" also wrote a novel in which Ed Gentry climbs a steep cliff in order to kill a white-bearded man with a bow and arrow, following Drew Ballinger's death by gunshot and the loss of one canoe. For 10 points, name this author who described Bobby Trippe's rape at the hands of a pair of mountain men in his novel *Deliverance*.
ANSWER: James **Dickey**

20. One man with this title allegedly poured water on the shoes of Thomas Wolsey, who had him killed by telling Henry VIII that he had listened to prophecies of the king's death. Another man with this position took the blame for mercenary Ernst von Mansfeld's failure to retake the Palatinate and an attack on the Spanish treasure fleet in Cadiz that his drunken soldiers predictably messed up. In the 15th century, this title was held by Henry and Edward Stafford. An official with this title during Charles II's reign led the opposition to Edward (*) Hyde, 2nd Earl of Clarendon as the chief organizer of the Cabal ministry. The most famous man to hold this position was stabbed to death in Portsmouth by John Felton while preparing a second expedition to relieve La Rochelle. That man with this title travelled in secret with the young Prince Charles in a bungled attempt to arrange the Spanish Match and served as Charles I's closest adviser in the first two years of his reign. For 10 points, identify this position held by James I's favorite, George Villiers.
ANSWER: the **Duke of Buckingham**

Bonuses:
1. Trans-spanning ligands can prevent this reaction. For 10 points each:
[10] Name this type of elimination in which the resultant double bond coordinates with the metal atom. It gets its name for the loss of the hydrogen atom two carbons away from the metal center.
ANSWER: **beta-hydride** elimination
[10] Beta-hydride elimination doesn't occur if the complex has this many electrons, because it is already stable. Stable non-square-planar complexes typically have this many electrons.
ANSWER: **18 electrons**
[10] This process creates alpha-olefins by using the olefin metathesis and a nickel-phosphine complex as a catalyst. Unlike the Ziegler-Natta process, this creates only short chains.
ANSWER: **Shell Higher Olefin** process [or **SHOP**]

2. Name these early American novelists, for 10 points each.
[10] This author of *Mentoria* and *The American Tar* described Belcour and Mademoiselle La Rue helping John Montraville seduce a teenage girl in *Charlotte Temple*.
ANSWER: Susannah **Rowson**
[10] This author also focused on seduction, in this case that of Harriot by Harrington, in his *The Power of Sympathy*, and he returned to the incest theme in *Ira and Isabella*. He shares his surname with the author of *Wieland*.
ANSWER: William Hill **Brown**
[10] This author of the educational commentary *The Boarding School* wrote of the death of Eliza Wharton, who rejects both Reverend Boyer and Major Sanford, in *The Coquette*.

ANSWER: Hannah Webster **Foster**

3. Answer the following about Prime Minister H.H. Asquith, for 10 points each.
[10] Asquith was a PM from this British political party once led by William Gladstone, which was the primary opposition to the Conservatives until the advent of the Labour Party.
ANSWER: **Liberal** Party
[10] Asquith was able to significantly weaken the power of the House of Lords with the Parliament Act of 1911 after the Lords vetoed this "radical" piece of financial legislation pushed by David Lloyd George.
ANSWER: the 1909 **People's Budget**
[10] In this 1914 incident during Asquith's premiership, 61 officers in the British Army resigned over rumors that they might have to fight Ulster Unionists over the implementation of Irish Home Rule.
ANSWER: the **Curragh** Mutiny [or the **Curragh** Incident]

4. The best-known section of this text is a dialogue between Aloysius and Josephus, who represent Palestrina and the author, respectively. For 10 points each:
[10] Name this influential 1725 treatise on musical counterpoint written by Johann Joseph Fux that established a pedagogical system of five "species" of counterpoint progressing from simpler to more complex.
ANSWER: *Gradus ad Parnassum*
[10] *Gradus ad Parnassum* was also the title of several sets of instructional piano pieces, including one by this Italian-born composer best known today for his set of six sonatinas for piano.
ANSWER: Muzio **Clementi**
[10] Fux's treatise also offers instruction in this technique of imitative counterpoint in which a "subject" introduced in one voice is imitated in others. One of these is paired with a Toccata in a D-minor work by J. S. Bach.
ANSWER: **fugue**

5. These people include Vipassi, who was 120 feet tall, radiated light for fifty-six miles around, and lived for eighty to one hundred thousand years. For 10 points each:
[10] Identify these non-*tirthankara* people who also include the medical patron Bhaisajyaguru and Kassapa, who was interred in a structure made of ten-million-rupee bricks.
ANSWER: **buddhas** [do not accept or prompt on "boddhisatvas"]
[10] The final Buddha will be this messianic figure, often claimed as the patron of Chinese rebellions.
ANSWER: **Maitreya**
[10] In 1911, members of this religion established the Order of the Star in the East in the belief that Jiddu Krishnamurti was Maitreya. Krishnamurti later led the breakaway Ascended Master and I AM movements from this religion.
ANSWER: **theosophy**

6. In a short story by this author, Parvez is initially convinced that Ali is a drug addict, but learns instead that he has become a religious fundamentalist. For 10 points each:
[10] Name this Pakistani-British author of "My Son the Fanatic," *Gabriel's Gift*, and *The Buddha of Suburbia.*
ANSWER: Hanif **Kureishi**
[10] Hanif Kureishi is a friend of this fellow Muslim-born British citizen, whose memoir *Joseph Anton* recounts his years hiding from a fatwa issued by Ayatollah Khomeini.
ANSWER: Salman **Rushdie**
[10] British Jamaican author Zadie Smith wrote about the mixed-race Belsey family, as well as Howard Belsey's feud with Monty Kipps, in this novel based on *Howard's End*. It takes its title from an Elaine Scarry essay.
ANSWER: *On Beauty*

7. This Berkeley economist's research focuses on the micro-level foundations of the labor market, which he investigates using natural experiments such as the adoption of a minimum wage in one state while another's minimum wage is constant. For 10 points each:

[10] Name this economist, who worked with Alan Krueger on the aforementioned study that showed increasing or constant employment thanks to an increase in the minimum wage.
ANSWER: David **Card**
[10] Alan Krueger worked on an "environmental" application of this curve in economics. According to this curve, which is named for a Ukrainian-American economist, income inequality temporarily increases with industrialization, but then decreases after a certain point.
ANSWER: **Kuznets** Curve
[10] Card has argued that immigration has a neutral-to-positive long term impact on native workers' wages thanks in part to the responsiveness of this economic concept. The Solow model is based on the dynamics of this concept.
ANSWER: **capital**

8. Answer these questions about Vietnamese rebellions, for 10 points each.
[10] The Lam Son uprising established this longest-reigning native Vietnamese dynasty. It controlled the country from 1428 to 1788 after being established by a hero wielding the sword "Heaven's Will."
ANSWER: the Later **Le** dynasty [or **Le** Loi; do not accept or prompt on the "Earlier Le" dynasty]
[10] A more famous Vietnamese rebellion was led by these elephant-riding sisters, who temporarily freed Vietnam from the control of the Han but drowned themselves after their defeat by Ma Yuan.
ANSWER: the **Trung** Sisters [or **Trung** Trac and **Trung** Nhi]
[10] The Le Dynasty collapsed from this late 18th-century rebellion, led by three brothers from a namesake Vietnamese hamlet. During this chaotic period, an invading army led by the Qianlong Emperor was repulsed on the holiday of Tet.
ANSWER: the **Tay Son** Uprising [or the **Tay Son** Dynasty; or anything about the **Tay Son**]

9. They have recently been used to factor the number 143. For 10 points each:
[10] Quantum computers use these units rather than electronic 1 or 0 bits. Unlike a standard bit, these can exist as a superposition of both the one and zero state.
ANSWER: **qubit**
[10] The Steane code and Shor codes are quantum methods for doing this process, which in a classical computer can be done using a cyclic redundancy check, checksum, or parity bit.
ANSWER: **error correction** or **error detection**
[10] This is the complexity class of problems that can be solved by a quantum computer in polynomial time with an error probability of equal to or less than one-third. Its relationship with NP is unknown.
ANSWER: **B**ounded Error **Q**uantum **P**olynomial Time [do not accept BPP or Bounded-Error Probabilistic Polynomial Time, do not prompt or accept on just "P"]

10. Carlo Beenakker proposes that "what can and cannot be computed in the age of the universe" solves this man's namesake dilemma by providing a distinction between physics and metaphysics. For 10 points each:
[10] Name this logical positivist who wrote *Fundamentals of Concept Formation in Empirical Science* and *Philosophy of Natural Science*.
ANSWER: Carl Gustav **Hempel**
[10] Hempel's confirmation paradox takes as its most common example the fact that, under the usual laws of logic, the observation of a red fish or a blue swan is a piece of evidence confirming that all of these birds are black.
ANSWER: **raven**s
[10] According to the Stanford Encyclopedia of Philosophy, Hempel's writings on explanation and his writings on decision and inference are linked by the "principal principle" of this man, the author of *Convention* who defended his modal realism in *On the Plurality of Worlds*.
ANSWER: David Kellogg **Lewis**

11. This book is presented as the dream of Dr. Philip Raven, who imagines what a history textbook in 2106 will say. For 10 points each:
[10] Name this 1933 publication which predicts that World War II will last ten years, after which a "Dictatorship of the Air" will create a utopian world state.
ANSWER: The ***Shape of Things to Come***

[10] Other nonfiction by this author of *The Shape of Things to Come* includes *Will Socialism Destroy the Home?* and *The Outline of History*. He may be better-known for novels like *The Island of Dr. Moreau*.
ANSWER: Herbert George **Wells**
[10] The Dictatorship of the Air was based on the Aerial Board of Control, a group which appears in both "With the Night Mail" and "As Easy as ABC", the only two works of science fiction written by this man. In a short story by this writer, Daniel Dravot is executed after a girl bites him and he is seen bleeding.
ANSWER: Rudyard **Kipling**

12. The song "Could I leave you?" is part of a sequence in this musical that reveal the loveless marriage of two main characters, Phyllis Rogers and Ben Stone, whose late song "Loveland" mocks the characters for their lives' disappointment. For 10 points each:
[10] Name this musical about the 30th reunion of the title vaudeville act, whose late torch song "Losing My Mind" reveals Sally Durant's lifelong obsession with the aforementioned Ben.
ANSWER: ***Follies***
[10] *Follies* is a work by this titan of American musical theater, the composer and lyricist of *A Funny Thing Happened on the Way to the Forum* and *Sunday in the Park with George*.
ANSWER: Stephen **Sondheim**
[10] In a song from *Follies* titled by this three-word sentence, the singer says she's "been through Herbert and J. Edgar Hoover" and recounts the ups and downs of show business.
ANSWER: "**I'm still here**"

13. Leptons are shuttled back and forth between two isobars in this process. For 10 points each:
[10] Name this radiative cooling process in white dwarves in which a baryon transforms into a lepton and an
antineutrino, then, the baryon and lepton turn into the original baryon and a neutrino. It was first proposed by George Gamow and Mario Schoenberg who named it after a casino.
ANSWER: **Urca** process
[10] Schoenberg later did major work on this type of structure, which was the setting in which Dirac introduced spinors.
ANSWER: **Clifford algebra**s
[10] Gamow put his name on a famous paper that calculated the specifics of this process, the creation of heavier elements from hydrogen after the Big Bang.
ANSWER: **nucleosynthesis**

14. Kreon commanded this man to hunt down an animal so fast that it was fated never to be caught. For 10 points each:
[10] Identify this Theban general, who borrowed Cephalus' dog Laelaps in his hunt for the Teumessian Fox.
ANSWER: **Amphitryon**
[10] In one of the tales of Uncle Remus, Br'er Fox successfully captures Br'er Rabbit by fashioning a "tar baby." However, Br'er Rabbit escapes after facetiously begging Br'er Fox not to do *this* to him, which Br'er Fox foolishly does.
ANSWER: **throwing** him into a **briar patch** [synonyms for **throwing** acceptable, but **briar patch** is required; prompt on answers like **throwing** Br'er Rabbit into **his hiding place**]
[10] A major antagonist in *The Investiture of the Gods*, this fox spirit-possessed concubine causes the downfall of the Shang Dynasty by showing King Zhou the joy of forcing his subjects to run on burning-hot cylinders.
ANSWER: **Da Ji**

15. This artist slapped Paul von Hindenburg's face on top of an exotic dancer's body in the top-right corner of a collage that sets von Hindenburg among the anti-modernists. For 10 points each:
[10] Name this German artist of the Berlin Dadaists. She is known for her photomontages, such as *Cut with the Kitchen-Knife Dada through the Last Weimar Beer-Belly Cultural Epoch of Germany*.
ANSWER: Hannah **Hoch**

[10] George Grosz, a sometime Dadaist whose head was included in Hoch's collage, painted this demented vision of a "dance of death" that shows a skeleton chugging alcohol on top of a coffin amidst a throng of citydwellers.
ANSWER: _**Dedication to Oskar Panizza**_ [or The _**Funeral**: Dedication to Oskar Panizza_; or The _**Funeral Procession**_; or _**To Oskar Panizza**_]
[10] This Dadaist created a series of abstract paintings he called "aerographs" as well as other paintings like _A Night at Saint-Jean de Luz_. He was also a photographer who took pictures of Marcel Duchamp in drag.
ANSWER: Man **Ray** [or Emmanuel **Radnitzky**]

16. Codenamed _umritsa_, or "Miss Clever," this woman convinced Earl Browder to hand over the Silvermaster Group to the direct supervision of the NKGB. For 10 points each:
[10] Name this "Red Spy Queen" who exposed over a hundred purported Soviet agents after defecting in 1945.
ANSWER: Elizabeth Terrill **Bentley**
[10] Bentley testified before this notorious Congressional committee. Bentley's exposure of Whittaker Chambers before this committee indirectly led to the Alger Hiss affair.
ANSWER: **H**ouse **U**n-American **A**ctivities **C**ommittee
[10] J. Edgar Hoover told MI6's counter-espionage division about Bentley's defection. Unfortunately, the head of that division was this Soviet spy, a member of the Cambridge Five along with Burgess and Maclean.
ANSWER: Kim **Philby**

17. The rules changes accompanying this expansion included a replacement of the "batch" system for spell resolution timing with a last-in-first-out "stack," and the changing of classic interrupt spells such as Counterspell into instants. For 10 points each:
[10] Name this set released in 1998, a controversial core set of _Magic: the Gathering_.
ANSWER: _Magic: the Gathering **Sixth Edition**_ [or _Magic: the Gathering **Classic**_]
[10] _Sixth Edition_ was preceded by _Urza's Saga,_ a block with many of this type of permanent cards. The _Mirrodin_ blocks were also themed around these cards which, unlike enchantments, can be tapped for activated abilities and are almost always colorless.
ANSWER: **artifact** cards
[10] This head designer of _Magic: the Gathering_ removed mana burn from the game's rules for the _Magic 2010_ core set after refusing to do so for _Sixth Edition_. This witty author of the online "Making Magic" column has more or less had the game handed over to him by its creator, Richard Garfield.
ANSWER: Mark **Rosewater** [prompt on **MaRo**]

18. This emperor commissioned a woodcut of a triumphal arch from Albrecht Durer. For 10 points each:
[10] Name this Habsburg emperor who married the daughter of Charles the Bold, and who granted independence to the Swiss Confederacy after a 1499 defeat at the Battle of Dornach.
ANSWER: **Maximilian I**
[10] Maximilian I secured the imperial throne for his grandson, Charles V, with the help of this wealthy family of bankers from Augsburg.
ANSWER: the **Fuggers**
[10] Maximilian signed this 1482 treaty with Louis XI of France to resolve the Burgundian succession following the death of Charles the Bold. Another treaty named for the same place was devastating to the English cause in the Hundred Years' War, since it established peace between Burgundy and Charles VII of France.
ANSWER: Treaty of **Arras**

19. This disease often co-occurs with pes cavus and hammer toes, and death occurs due to hypertrophic cardiomyopathy in this recessive disorder. For 10 points each:

[10] Name this disease which is caused by the expansion of GAA repeats in the first intron of a namesake mitochondrial protein. It cases a staggering gait, childhood scoliosis, and degeneration of spinal cord nerves.
ANSWER: **Friedrich's ataxia**
[10] Many other forms of ataxia are caused by damage to this part of the brain, which is responsible for coordinating movement. This structure has two hemispheres, a vermis, and a flocculo-nodular lobe.
ANSWER: **cerebellum**
[10] An unusual feature of cerebellar lesions is that they affect movement on this side of the body, rather than the contralateral side. This is because the cerebellar pathways decussate twice.
ANSWER: **ipsilateral** [prompt on answers like "same side"]

20. This author wrote a novel about a legendarily beautiful courtesan who is sought out by the hermit monk Paphnuce and converted to Christianity, which she adopts with alacrity. For 10 points each:
[10] Name this French man of letters, the author of *Thais* who served as the basis for Bergotte from *Remembrance of Things Past*.
ANSWER: Anatole **France**
[10] This satirical work of France's is in fact misnamed since the title characters are auks, which had recently become extinct when this was written. It recounts the development of a civilization of birds baptized by Mael.
ANSWER: *Penguin Island*
[10] An excerpt of penguin literature from *Penguin Island* deals with the monk Marbodius' trip to hell, where Marbodius converses with this man and discovers that he obstinately refused God's invitation into heaven.
ANSWER: **Vergil** [or Publius **Vergil**ius Maro; or Publius Vergilius **Maro**]

TIEBREAKERS

One character in this novel is a student at the Katharineum, where the ethos is one of "authority, duty, power, and service," as was the author, and that character's father comes to believe he will live through others after his death from a botched tooth extraction based on his reading of *The World as Will and Representation*. The diminishing use of (*) French by the characters signifies changing political circumstances over the course of this novel. Hanno prefers art and music to learning the business of his great-grandfather Johann, which parallels the contrast between Berlin and this novel's setting and which contributes to the decline in his family's material circumstance. For 10 points, name this story of the decline of a certain Lubeck family, the first work of Thomas Mann.
ANSWER: *Buddenbrooks*

In one game released for this system, the bandit Kurai tries to escape prison to reunite with Akara. Besides that game, *Dying Eyes*, other RPGs for this system include *Reign of Legends* and *Desolate*. One game that achieved its greatest popularity on this system displays messages such as "PIGS MADE A BIG COKE BUST! PRICES ARE OUTRAGEOUS!!!!" That game was a port from MS-DOS which caught on in a version for this system and is called *Drug Wars*. This was also the first system where one could play a 2D sidescrolling game where the title character picks up squares by walking sideways into them in order to clear a path to the door, called (*) *Block Dude*. In December 2012, an unauthorized version of *Portal* was released for this system, which can be natively programmed in a BASIC-like language but requires the use of assembly language for large games, and cannot put more than sixteen kilobytes of code into memory at once. For 10 points, name this gaming platform popular with high school students, whose most popular programs are not games at all but rather scripts for calculating the roots of functions.
ANSWER: the **TI-83** [or **Parcus**; or **TI-83** plus; or **TI-84**; or **TI-84** silver edition (they all run the same OS/games); **TI-82** or **TI-81** are probably correct since they run most of the same programs as well, though no one is going to say those; prompt on **graphing calculator**]

This people's folklore includes the "orang bunian" or "whistling people," similar to elves, and the legend of Puteri Genung Ledang, a princess wooed with trays full of mosquito hearts who lives on Mount Ophir. For 10 points each:

[10] Name this ethnic group.
ANSWER: **Malay**s [or **Malaysians**]
[10] Malay cuisine often uses belacan, a paste made from this edible animal which is also found in dynamite rolls and a namesake "DeJonghe" dish that originated in Chicago. One should remove the sand vein before cooking this animal.
ANSWER: **shrimp** [or **prawns**]
[10] Along with the islands in the Labuan territory, East Malaysia is made up of these two states found on the north of the island of Borneo.
ANSWER: **Sabah** and **Sarawak** [order not important but don't accept or prompt on just one]

This character spots her employer's scoundrelous first husband working as a gendarme in Paris, after bearing a daughter in place of that employer. For 10 points each:
[10] Name this domestic servant who eventually is fired for threatening to kill her own daughter in order to protect her employer's reputation.
ANSWER: **Amy**
[10] Amy is the faithful maid of this title character, who leaves for Holland to marry her final husband after a succession of romantic escapades, including one with an unnamed prince.
ANSWER: **Roxana**
[10] *Roxana* is a novel by this author of *Memoirs of a Cavalier* and *Captain Singleton*.
ANSWER: Daniel **Defoe**