

## ACF Regionals 2017

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Tossups by Maryland A (Jordan Brownstein, Sam Rombro, Weijia Cheng, Ophir Lifshitz) and UCSD B (Brandon Blishchak, Nicholas Blishchak, Michel Chen, Daniel Chung)

1. After this man has a panic attack at Madison Square Garden, he is taken to Yankee Stadium, where he recounts his guilt over his war-veteran brother's death from drunk driving. A character played by Busta Rhymes gives this man an envelope after this man's friend misses two free throws to lose the state basketball championship. A lawyer played by Matt Damon reveals this character's dying request in a film that ends with Israel Kamakawiwo'ole's (kah-MAH-kah-VEE-voh-OH-lay's) ukulele version of "Somewhere over the Rainbow" playing over the credits. This author of *Avalon Landing* yells "punch the keys, for god sake!" at a character sitting at a typewriter before maniacally screaming, "Yes! Yes! You're the man now, dog!" For 10 points, what reclusive author played by Sean Connery mentors a black teenager in a movie titled for "finding" him?

ANSWER: William Forrester [accept either underlined portion; accept *Finding Forrester*]

2. A Herman Melville essay notes that this story's innocuous title is meant to deceive the "superficial skimmer of pages," who fails to see that this story is "deep as Dante." A character in this story mentions women poisoning their husbands' bedtime drinks as evidence that the whole earth is "one stain of guilt, one mighty blood-spot." When its protagonist dies, "no hopeful verse" is carved upon his tombstone because "his dying hour was gloom." While traveling with a man whose black staff resembles a living snake, the title character of this story meets Goody Cloyse and finds his wife's pink ribbon hanging from a tree branch. The title character and his wife, Faith, are inducted into a Satanic cult in a forest clearing at the climax of, for 10 points, what short story by Nathaniel Hawthorne?

ANSWER: "Young Goodman Brown"

3. An alkylation reactor reacts these compounds with iso-butane and strong acid. The Dewar-Chatt-Duncanson model explains how these compounds act as ligands. Aldehydes are synthesized industrially by carbonylating these compounds. Disproportionation during petroleum cracking makes equimolar hydrogen gas and these compounds as a byproduct. Carbenes add to these compounds to make cyclopropanes. The simplest Diels-Alder reaction uses one of these compounds as the dienophile ("die"-EE-no-"file"). Ziegler-Natta catalysts polymerize these compounds. Markovnikov addition of water to these compounds gives an alcohol. Halogens add to them in the canonical test for unsaturation. For 10 points, name these hydrocarbons with a carbon-carbon double bond.

ANSWER: alkenes [or olefins; or polyalkenes; or polyolefins; prompt on "hydrocarbons" before "hydrocarbons"]

4. One side in this war signed a free-trade agreement with Morocco negotiated by the so-called "rabbi pirate" Samuel Pallache (pah-LAHSH). Francis, Duke of Anjou, was given sovereignty over one side in this war but was forced out after his troops were massacred by the citizens of a key city; despite Federico Giambelli's (jahm-"BELLY's") use of "hellburners" to destroy a pontoon bridge, that city surrendered to Alessandro Farnese (far-NAY-zay), Duke of Parma, during this war. The first assassination of a head of state by handgun was carried out by Balthasar Gérard during this war. The Twelve Years' Truce interrupted this war, which was initiated by a faction that was joined by the Sea Beggars and Maurice of Nassau and formed by William the Silent. For 10 points, what long revolt resulted in Utrecht and Holland breaking from Habsburg Spain?

ANSWER: Eighty Years' War [or Dutch War of Independence; accept Dutch Revolt; accept answers mentioning a war in which the Netherlands or Holland acquired independence from Spain; prompt on "Dutch War" or similar answers]

5. An unresolved C-sharp dominant 7 chord, which ends the first song of one of this composer's cycles, has an ambiguous A-major or F-sharp-minor tonality. This man, who was an influence on Hugo Wolf (VULF), included "Mondnacht" (MOND-nahkt) and "In der Fremde" (FREM-deh) in his Opus 39 song cycle based on twelve Joseph Freiherr von Eichendorff poems. This man wrote over 120 songs during his *Liederjahr* (LEE-dehr-yar), or "Year of Song," including a cycle about doomed love based on 16 Heinrich Heine ("HI"-neh) poems. He promoted a young Johannes Brahms in his essay "New Paths" for his *New Journal of Music*. This composer of *Dichterliebe* (DIK-ter-lee-beh) included the piece "Träumerei" (TROY-meh-"rye") in his *Scenes from Childhood*. For 10 points, name this Romantic composer of the *Rhenish* Symphony who married the pianist Clara Wieck (VEEK).

ANSWER: Robert **Schumann** [accept Robert Alexander **Schumann**]

6. A piece of an object used for this activity was used to heal the eye of a hawk, in whose stomach were a snake, a toad, and a louse that all carried the same message. After being defeated in this activity, two participants were forced to fill four baskets up with flowers, which was accomplished with the help of cutting ants. As a rabbit distracted gods engaged in this activity, one of their opponents retrieved his own decapitated head that had been lost at the House of Bats. This activity aroused the anger of the gods of the underworld because it made too much noise. In the *Popol Vuh*, the Hero Twins avenge their father and uncle by defeating the Lords of Xibalba (shee-"BALL"-bah) in this activity. For 10 points, what ritual sport using a round rubber object was played in Mesoamerica?

ANSWER: Mesoamerican **ballgame** [or Mayan **ballgame**; or **pohatok**; or **pitz**; or **ullamaliztli**; accept answers mentioning a **ball**]

7. During this decade, a court set out the modern concept of negligence in *Donoghue v. Stevenson*, in which the remains of a snail were discovered in a bottle of ginger beer. After Palmer's shipyard went out of business in this decade, Ellen Wilkinson joined a 300-mile hunger march from Jarrow to London. Early in this decade, Britain was forced off the gold standard after naval pay cuts provoked the Invergordon mutiny. This decade's first general election was a massive defeat for the Labour Party after it expelled Ramsay MacDonald. This decade included both Edward VIII's ("the eighth's") abdication and Neville Chamberlain's claim that the Munich Agreement achieved "peace for our time." For 10 points, name this decade dominated in the U.K. by the Great Depression.

ANSWER: **1930s** [prompt on "the **thirties**"]

8. This man created a character who has a one-legged father and a one-eyed mother, steals a copy of *Animals and Plants of the European Coastal Region*, and becomes obsessed with seaweed. He concluded a novel with a drawing of a rectangle and the question "what's outside the window?" A former Black Panther who wrote the cookbook *Eating Ribs with Barry Seaman* appears in a book by this man in which a journalist is sent to cover a boxing match. In one of his books, Arturo and Octavio take a Ford Impala into the desert in search of a "visceral realist" poet. He also created four critics who, while seeking the writer Benno von Archimboldi, travel to Santa Teresa, where many women have been murdered. For 10 points, what Chilean author wrote *The Savage Detectives* and 2666 ("twenty six sixty six")?

ANSWER: Roberto **Bolaño** (boh-LAHN-yoh) [or Roberto **Bolaño** Ávalos]

9. When this term is "materialized," it refers to the results of a database query. The S·Q·L command "CREATE [this term] foo, "AS" ("as") query" creates a virtual table named "foo" for the results of a query. Window coordinates transform into coordinates named for this term and "port" to get the rectangular area of the device where an image appears. It names the output representation in a software design pattern for user interfaces named "model, [this term], controller." In 3D graphics, objects are culled outside of the frustum named for this term, which is the space seen by the camera. In a first-person game, the angle subtended by the visible extent of the world is called the "field of" this term. For 10 points, what term in web analytics is distinct from a "hit" and refers to a visitor's access of a webpage?

ANSWER: **view** [or **viewing**; accept materialized **view** or **view** foo or **viewport** or model, **view**, controller or **viewing** frustum or field of **view** or page**view**; prompt on "vision"]

10. Before a front vowel, the Proto-Greek labiovelar “k·w” became the sound represented by this letter. Alfred Tarski’s “convention” named for this letter says that “sentence *S* in the object language is true if and only if it is true in the meta language.” This letter denotes the empty category in the position out of which a “w·h”-word moved. The voiceless sound represented by this letter debuccalizes (dee-“BOOK”-ah-ly-zes) to a glottal stop before a consonant in American English and between vowels in Cockney. This letter is a Latin suffix denoting the third-person singular present tense. This letter names the informal honorific in Indo-European languages, as distinguished from “V.” It is the voiceless alveolar (al-vee-OH-lar) stop in I·P·A, and its voiced counterpart is “d.” For 10 points, name this letter that is aspirated in the word “time.”

ANSWER: T [accept Convention T or T-sentence or T-V distinction]

11. A poem about this event asks “can you then impute a sinful deed to babes who on their mothers’ bosoms bleed?” and states “one day everything will be well, that is our hope.” This event inspires the killing of two men who refused to eat bacon and a Biscayan who had married his godmother. During this event, a man claims that a bay was created so that an Anabaptist could drown in it. After this event, a syphilitic, one-eyed character who survived it is apparently hanged during an auto-da-fé on the orders of the grand inquisitor. This historical event leads the protagonist of a novella to question the idea that “this is the best of all possible worlds,” a theory of his tutor, Pangloss. For 10 points, name this disaster depicted in *Candide* that severely damaged an Iberian city.

ANSWER: 1755 Lisbon earthquake [or the Lisbon disaster; prompt on “earthquake (in *Candide*)”]

12. Several photographs of this smiling person feature in a photorealistic “vanitas” still life by Audrey Flack. Dorothy Podber used a revolver to shoot a hole in a stack of four paintings of this person. A paste-up by Richard Hamilton consisting of crossed-out negatives of this person is titled “my” this person. Another painting features a small image of this person at the center of a six-foot-tall canvas covered in metallic gold paint. This person’s face is depicted in 25 colorful images and 25 black-and-white images composing a 1962 artwork; like similar pieces featuring Jackie Kennedy and Mao Zedong, that silkscreen “diptych” depicting this woman was made in “The Factory.” For 10 points, name this actress whose image was repeatedly reproduced by Andy Warhol after her 1962 suicide.

ANSWER: Marilyn Monroe [accept either underlined portion; or Norma Jeane Baker; or Norma Jean Mortenson; accept My Marilyn or Marilyn Diptych]

13. During World War I, Hog Island became the largest center for this industry in the world. Dwight Eisenhower called Andrew Higgins, a leader of this industry, “the man who won the war.” A center for this industry in Richmond, California, was the site of the first Permanente Foundation hospital. Henry Kaiser used prefabrication and assembly-line methods to achieve enormous productivity in this industry. During World War II, this industry mass-produced products using steel that embrittled at low temperatures, causing some of those products to literally snap in half; the “Victory” model produced by this industry improved on the design flaws of those “Liberty” products. For 10 points, what industry produced destroyers and aircraft carriers during World War II?

ANSWER: shipbuilding [accept equivalents mentioning the manufacture of ships or boats or other equivalents]

14. Bose–Einstein condensates can be described by a macroscopic version of this quantity equal to the root of the density distribution times a spatially varying phase factor. The anti-symmetrizer of this quantity can yield a determinant of many of these quantities. This quantity is assumed to be exponential with a slowly varying phase and amplitude compared to the de Broglie (de BROY-yeh) wavelength in the W·K·B approximation. The squared magnitude of this quantity gives the probability density, which is normalized to one when integrated. The Hamiltonian acting on this quantity equals an energy eigenvalue multiplied by this quantity in the time-independent Schrödinger equation. For 10 points, name this quantity, symbolized psi (“sigh”), that describes the quantum state of a particle.

ANSWER: wavefunctions

15. This thinker's formulation of the problem of evil includes the metaphor of an architect whose design for a house subjects its residents to "noise, confusion, fatigue, [and] darkness." He proposed that people understand necessary connections because of the "constant conjugation" of cause and effect through time. This thinker put forth metaphors of "vegetation" and "generation" as alternatives to analogizing the universe to a machine in a work in which Philo ("FIE-low") refutes the design argument made by Cleanthes (klee-ANN-theez). In another of his books, he distinguished between impressions and ideas by using the example of a man who has experienced all colors except for a "missing shade of blue." For 10 points, who wrote *Dialogues Concerning Natural Religion* and *An Enquiry Concerning Human Understanding*?

ANSWER: David Hume

16. G·P·C·Rs sensitive to this compound are agonized by quisqualic (kwis-KWAH-lik) acid and have a conserved Venus flytrap domain. On industrial scale, amino acids are made by a *Coryne·bacterium* (cor-"EYE"-nee-bacterium) named for this compound. Astrocytes overexpress importers for this compound, called E·A·A·Ts, and then aminate (am-ih-"nate") and secrete it in a crucial metabolic cycle. Its receptors are agonized by kainate (kye-nate) and A·M·P·A and are antagonized by PCP. Long-term potentiation improves synaptic plasticity by increasing the number of NMDA receptors for this compound. Deaminating this five-carbon compound forms alpha-K·G in the malate-aspartate (mal-"ate"-asp-ar-"tate") shuttle. De·carb·oxy·lating it forms GABA (GAB-uh), which has the opposite effect on target neurons. For 10 points, what major excitatory neurotransmitter—an amino acid with a carboxyl side chain—has a sodium salt found in Chinese food?

ANSWER: glutamate [or E; or glutamic acid; or Glu; accept monosodium glutamate]

17. This leader faced scandal when his mistress, B-movie actress Dovie Beams, played their sex tape during a press conference. Mutinying soldiers in training for Operation Merdeka, a secret invasion planned by this leader, were killed in the Jabidah massacre. This leader gave power to a group of cronies called the "Rolex 12" during a period intended to create a "New Society." This leader called a snap election after coming under fire in Cardinal Jaime Sin's ("HIGH-may SEEN's") radio broadcasts, which accused him of ordering the assassination of his chief rival, a man named Benigno (beh-NEEG-noh), at an airport. The People Power revolution overthrew this leader in favor of Corazon Aquino (ah-KEE-noh). A prominent purchaser of footwear named Imelda was the wife of, for 10 points, what longtime dictator of the Philippines?

ANSWER: Ferdinand Marcos [or Ferdinand Emmanuel Edralin Marcos Sr.]

18. Terry Gilliam's *Brazil* pays homage to this film sequence as Sam and Tuttle escape from the Ministry, replacing a key object from this scene with a vacuum cleaner. At its end, three separate shots of lion statues create the illusion that the lions are rising in response to the action of this sequence, which begins after the caption "suddenly . . ." interrupts a shot of a waving crowd that includes a legless man. The train station shootout from Brian de Palma's *The Untouchables* draws from this scene, which uses montage to intercut close-ups of a screaming, bleeding woman wearing shattered glasses with shots of a rolling baby carriage. For 10 points, what sequence from Sergei Eisenstein's *Battleship Potemkin* shows soldiers massacring a crowd fleeing down a namesake structure?

ANSWER: Odessa steps scene [or the steps scene from *Battleship Potemkin*; accept answers mentioning staircase or stairs in place of "steps"; accept steps or stairs scene after "Battleship"; prompt on partial answers]

19. In a poem addressed to this man, the speaker sees himself "as one who sits ashore and longs . . . to visit dolphin-coral in deep seas"; that sonnet to this man ends by invoking "Dian (dy-ANN), Queen of Earth, and Heaven, and Hell" and opens with the speaker "standing aloof in giant ignorance." In another sonnet, this "deep-brow'd" man is called a ruler of a "wide expanse," unlike the "many goodly states and kingdoms" that the speaker has seen; that poem's speaker recalls feeling, upon reading works originally by this man, like "some watcher of the skies when a new planet swims into his ken" or "stout Cortez when with eagle eyes he star'd at the Pacific" from "a peak in Darien." For 10 points, name this subject of a John Keats sonnet praising George Chapman's translation of this man's *Iliad*.

ANSWER: Homer [or Homeros]

20. In a namesake text, this man tells the story of a boy sent to Egypt to retrieve a pearl from a serpent who forgets about the pearl and his royal birth until he receives a letter from home; besides containing the Hymn of the Pearl, that text describes how Jesus sold this man as a slave to Abbanes (ah-BAH-nee-z), a merchant sent by King Gundaphorus (gun-dah-FOR-us). During the Last Supper, Jesus told this man that “I am the way, and the truth, and the life.” Jesus told this founder of the Seven and a Half Churches that “blessed are those who have not seen and yet have believed.” This apostle, who founded a namesake Christian community in India, exclaimed “my Lord and my God!” after Jesus came to him in person and showed him his wounds. For 10 points, name this apostle who declared his doubt about Jesus’s resurrection.

ANSWER: Saint **Thomas** the Apostle [or Thomas **Didymus**; accept Gospel of **Thomas** or Gospel According to **Thomas** or Book of **Thomas**]

TB. In this play, a student exits with the sarcastic line “goodnight, Prometheus,” prompting another character to speculate that there’s “no such thing” as “Prometheus.” A character in this play, who often waters a “feeble little plant” on her windowsill, receives a gardening hat and tools as a gift. In this play, a character dances and yells “OCOMOGOSIAY!” (oh-koh-moh-goh-"SIGH"-ay) while wearing a colorful dress gifted to her by a man who calls her “Alaiyo.” At this play’s climax, Bobo reveals that Willie has run off with money intended to open a liquor store. In this play, Karl Lindner’s offer to buy back a house is rebuffed, and Walter and Ruth’s family prepare to move into Clybourne Park, a white neighborhood. For 10 points, name this play featuring the Younger family, written by Lorraine Hansberry.

ANSWER: A **Raisin in the Sun**

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1. In the last scene of this play, a character tells Don Pedro “there is no staff more reverend than one tipped with horn,” thus concluding its running joke about cuckolds. For 10 points each:

[10] Name this Shakespeare comedy whose villain is Don John. Beatrice engages in a “merry war” of wits with Benedick in this play.

ANSWER: **Much Ado about Nothing**

[10] After Don John tricks Claudio by taking him to see this woman, Hero’s chambermaid, having sex with Borachio, Claudio assumes that it was actually Hero who was in bed with Borachio and accuses Hero of being unfaithful.

ANSWER: **Margaret**

[10] After Claudio rejects Hero, a character of this occupation proposes that Hero’s family trick Claudio by pretending she has died. Another Shakespeare character of this profession gives a girl a potion that will allow her to appear dead.

ANSWER: **friar** [accept **Friar** Frances or **Friar** Laurence; prompt on “monks” or “mendicants” or “priests” or similar answers]

2. For 10 points each, answer the following about terrorist organizations and their use of propaganda.

[10] The official media outlet of the Islamic State is this magazine, named after the site of a battle between Muslims and Romans in Islamic eschatology. Its first issue was titled “The Return of the Khalifa.”

ANSWER: **Dabiq** (dah-BEEK)

[10] Before the Islamic State published *Dabiq*, this terrorist organization’s branch in the Arabian Peninsula released an English-language magazine called *Inspire*. Its leaders have included Ayman al-Zawahiri and Osama bin Laden.

ANSWER: Al-**Qaeda** [accept Al-**Qaeda** in the Arabian Peninsula or **AQAP**]

[10] This group operates Al-Aqsa TV, which broadcasts a children’s show called *Tomorrow’s Pioneers*, featuring a Mickey Mouse look-alike called Farfour (far-FOOR). This group’s military wing is called the Izz ad-Din al-Qassam (“is” ahd-DEEN al-kah-SAHM) Brigades.

ANSWER: **Hamas** [or **Harakat al-Muqāwamah al-Islāmiyyah**; or **Islamic Resistance Movement**]

3. The namesake depth of these objects occurs when the reflectance equals the backscattering intensity. For 10 points each:

[10] What objects come in a plain white variety for marine environments or have alternating black and white quarters for use in freshwater environments?

ANSWER: **Secchi discs** (SEK-ee)

[10] Secchi discs are used to measure the transparency of a body of water, which describes how deep this phenomenon passes through a column of water before being scattered to oblivion.

ANSWER: visible **light** [accept **sunlight**]

[10] Because the Secchi depth is a proxy for transparency, it’s strongly correlated with this measure, which is the murkiness of water due to suspended solids. It can be measured using the Jackson candle method.

ANSWER: **turbidity** [accept word forms such as **turbid**]

4. Chen Zuyi, a pirate who frequently prowled this body of water, was captured in 1407 by Zheng He's (JUNG HUH's) fleet. For 10 points each:

[10] Name this strategically important body of water that Zheng He often travelled through on his way to the Indian Ocean. A sultanate based on and partially named for this body of water was founded by Parameswara (pah-rah-meh-swah-rah) and conquered by the Portuguese in 1511.

ANSWER: Strait of **Malacca** [or Strait of **Melaka**; or Straits of **Malacca**; accept **Malacca** Sultanate]

[10] Zheng He sailed through the Strait of Malacca on his way to battle the Kotte (KOH-tay) Kingdom, which was based on this island. More recently, this island faced a civil war between its government and the Tamil Tigers.

ANSWER: **Sri Lanka** [or **Ceylon**]

[10] Chen Zuyi's pirate empire was based out of this Sumatran (soo-MAH-tran) city. Previously, it had served as the capital of the Srivijaya (srih-vih-JYE-ah) Kingdom.

ANSWER: **Palembang** (PAH-lem-bahng)

5. This composer's Piano Concerto no. 1 was dedicated to the "dreaded Tcherepnin" (cheh-REP-nin), and his Piano Concerto no. 2 was so dissonant that listeners left shouting "the cats on the roof make better music than this!" For 10 points each:

[10] Name this composer whose Piano Concerto no. 3 opens with a gentle A minor clarinet solo and has five variations on a gavotte theme. A clarinet represents the cat in this Russian's *Peter and the Wolf*.

ANSWER: Sergei **Prokofiev** [or Sergei Sergeyevich **Prokofiev**]

[10] This Russian composer's Piano Concerto no. 1 opens, like Prokofiev's Third, with woodwind solos. His Piano Concerto no. 3 is often played by students, and he wrote the opera *Colas Breugnon* (brun-YON) and the piece *The Comedians' Galop*.

ANSWER: Dmitri **Kabalevsky** [or Dmitry Borisovich **Kabalevsky**]

[10] Tchaikovsky's First Piano Concerto initially drew criticism from a man with this last name; that man with this surname was the dedicatee of Tchaikovsky's Piano Trio, and his brother founded the St. Petersburg Conservatory.

ANSWER: **Rubinstein** [accept Anton (Grigorevich) **Rubinstein** or Nikolai (Grigoryevich) **Rubinstein**]

6. An avid follower of this court case is Miss Flite, an eccentric old woman who releases her birds named Spinach, Folly, Jargon, Waste, Ruin, and Precedent "on the day of judgment." For 10 points each:

[10] Name this drawn-out inheritance lawsuit at the heart of the novel *Bleak House*. When this case is finally resolved in favor of Richard Carstone and Ada Clare, it is revealed that litigation costs have consumed the entire estate.

ANSWER: **Jarndyce** and *Jarndyce* [accept **Jarndyce** v. *Jarndyce*]

[10] *Bleak House* was written by this Victorian novelist, who unflatteringly modeled the character of Harold Skimpole on Leigh Hunt. His other novels include *David Copperfield* and *Oliver Twist*.

ANSWER: Charles **Dickens** [or Charles John Huffam **Dickens**; prompt on "**Boz**"]

[10] In *Bleak House*, Lady Dedlock swoons upon seeing the handwriting of this former lover of hers, the father of her secret daughter Esther Summerson. You may provide the alias of this character, who is found dead from an opium overdose.

ANSWER: **Nemo** [or Captain James **Hawdon**]

7. Ovid relates how the rites of a goddess associated with this concept were performed at the *Feralia* (fer-AHL-ee-ah) by an old woman with seven black beans in her mouth who roasted a fish head impaled with a bronze needle. For 10 points each:

[10] Name this concept that is also represented by Hesychia (heh-zih-KEE-uh). The Greeks' misunderstanding of a gesture depicted in Egyptian statues of the child god Horus led them to adopt Harpocrates (har-POCK-rah-teez) as a god of this concept.

ANSWER: **silence** [or **muteness**; or **secrets**; or **confidentiality**; or **stillness**; accept any answers related to the **absence of speech**, including synonyms of the listed acceptable answers]

[10] This nymph and resident of the island of Ogygia (oh-JIH-jee-uh) is sometimes styled as a goddess of silence. In the *Odyssey*, she detains Odysseus on her island for seven years, unlike Circe, who only keeps him for one year.

ANSWER: **Calypso** [or **Kalypso**]

[10] Initiates into this mystery cult of Demeter and Persephone took a vow of silence. During these rituals, worshipers consumed a possibly psychedelic barley drink called *kykeon* and later entered the Telesterion (tell-eh-STEER-ee-on) hall.

ANSWER: **Eleusinian** Mysteries [or Mysteries of **Eleusis**]

8. In order to offset the effects of this enormous payment, the twelve-year-old Isabella of France was married off to Gian Galeazzo Visconti (JAHN gah-lay-AHT-zo viz-CON-tee) in exchange for 600,000 écus (AY-kooz), or crowns. For 10 points each:

[10] Name this payment set by the Treaty of Brétigny at three million écus, 40 hostages, and such large territories as Guyenne and Gascony. One hostage, Louis I, Duke of Anjou, dishonored this payment by escaping from captivity.

ANSWER: **ransom** of **John II** of France [accept equivalents in place of "ransom"; accept **Jean II** or **John the Good** or **Jean le Bon** in place of "John II"; prompt on partial answers or answers mentioning "**Jean**" or "**John**"]

[10] Before being ransomed, John was captured by Edward the Black Prince at this battle. Jean Froissart (zhahn frwah-SAR) reports that, at this battle, the king yielded himself to the banished French knight Denis of Morbeke (day-NEE of MOR-beck), who was by then fighting for England.

ANSWER: Battle of **Poitiers**

[10] The aforementioned events occurred during this long war between England and France, initiated because the Plantagenets disputed the French throne with the house of Valois.

ANSWER: **Hundred Years'** War [accept **Edwardian** War or **Edwardian** Phase of the Hundred Years' War]

9. The characteristic property of these devices is the derivative of the flux linkage with respect to charge. For 10 points each:

[10] Name these devices that were first created by sandwiching a titanium dioxide film between titanium and platinum electrodes.

ANSWER: **memristors**

[10] The I-V curve of a memristor displays the "pinched" form of this property, in which a system's state depends on its history. Materials that have become magnetized will stay magnetized indefinitely due to this property.

ANSWER: **hysteresis** [or magnetic **hysteresis**; or **hysteresis** loop]

[10] The voltage across a memristor equals the memristance times this quantity. This quantity is the time derivative of the charge flowing through a circuit.

ANSWER: electric **current** [prompt on "i"]



10. In David Ricardo's *On the Principles of Political Economy and Taxation*, this economic theory is illustrated by the example of Portugal producing wine and England producing cloth. For 10 points each:

[10] Name this economic theory stating that two countries can benefit from trade if they both specialize in the production of a good for which they have a lower opportunity cost than the other country does.

ANSWER: **comparative advantage** [prompt on "advantage"; do not accept or prompt on "absolute advantage"]

[10] In this model, differences in factor endowments determine comparative advantage. In it, capital-abundant countries will produce capital-intensive goods, and labor-abundant countries will produce labor-intensive goods.

ANSWER: **Heckscher-Ohlin** model [or **H-O** model]

[10] According to this thesis, the prices of primary commodities will decrease relative to the prices of manufactured goods in the long run, causing the terms of trade to deteriorate for exporters of primary commodities. This thesis explains the motivation for ISI policies.

ANSWER: **Prebisch-Singer** thesis [or **Prebisch-Singer** hypothesis; accept names in either order]

11. An end product of this metabolic pathway is channeled into the production of beta-carotene. For 10 points each:

[10] Name this metabolic pathway that converts acetyl-Co-A (ah-SEE-til KOH-ay) into terpenes. Its namesake metabolite, a six-carbon carboxylic acid with two hydroxyl groups, is formed by reducing H·M·G-Co-A in the rate-limiting step.

ANSWER: **mevalonate** (meh-VAL-oh-"nate") pathway [prompt on "isoprenoid pathway"]

[10] As a result, H·M·G-Co-A reductase inhibitors limit synthesis of this compound, a key product of the mevalonate pathway. It is made from the linear 27-carbon compound oxidosqualene (ox-EYE-do-"squay"-lean) in a remarkable cyclization cascade.

ANSWER: **cholesterol** [or **lanosterol**, the precursor to cholesterol]

[10] From cholesterol, cells synthesize bile acids, various steroids, and also this vitamin, which is required for calcium absorption and is made in the skin in the presence of sunlight.

ANSWER: Vitamin **D** [or **cholecalciferol**; or **ergocalciferol**]

12. After this dog dies of cancer, her owner imagines having the words "he gave birth to two rolls and a bee" put on her tombstone. For 10 points each:

[10] Name this dog owned by Tomas and Tereza in *The Unbearable Lightness of Being*. Despite being female, this dog is named for a fictional man whose wife has an affair with Count Vronsky.

ANSWER: **Karenin** [do not accept or prompt on "Karenina"]

[10] *The Unbearable Lightness of Being* is a novel by this Czech author of *Immortality* and *The Joke*.

ANSWER: Milan **Kundera**

[10] Kundera's collection *Encounters* contains an essay about a dog who dies from cancer in this author's novel *Castle to Castle*. In another of his novels, Leon Robinson is blinded by his own bomb while attempting to kill the Henrouilles' (on-ROO-ees') grandmother.

ANSWER: Louis-Ferdinand **Céline** [or Louis-Ferdinand **Destouches**]

13. Yarrow Mamout (mah-MOOT), a slave who practiced this religion, became a financier in Georgetown after being freed at the age of 60. For 10 points each:

[10] Name this religion of as many as 30 percent of African slaves. The presence of this religion in early America is examined in a Denise Spellberg book about Thomas Jefferson's Qur'an.

ANSWER: **Islam** [or **Muslim** religion]

[10] The scholar Omar ibn Said (ih-bun sah-YEED) was enslaved in this modern-day state, where he used ash to write Qur'an verses on his walls. Using the subtle pseudonym "Toscape ("to scape") Death," Herman Husband fled the colony that became this state after losing the Battle of Alamance to the forces of Governor William Tryon.

ANSWER: **North Carolina**

[10] Job Ben Solomon, a Muslim who wrote an early slave narrative, managed to return to Africa after this man bought his freedom. This man's victory at the Battle of Bloody Marsh saved his colony from a Spanish invasion.

ANSWER: James **Oglethorpe**

14. Answer the following about Renaissance art inspired by Francesco Colonna's *Hypnerotomachia Poliphili* (hip-ner-oh-toh-MAHK-ee-ah poh-lee-FEE-lee), for 10 points each.

[10] Leon Alberti is sometimes credited with either writing the *Hypnerotomachia* or making its illustrations in this medium. In this printmaking technique, the artist carves an image onto a block of the namesake material.

ANSWER: **woodcuts** [accept **woodblocks**]

[10] This painting may have been inspired by a woodcut of Ariadne from the *Hypnerotomachia*. This painting depicts a reclining woman in a pastoral landscape, and its landscape and clouds were painted by the artist's student, Titian (TIH-"shun").

ANSWER: ***Sleeping Venus*** [or ***Dresden Venus***]

[10] This artist painted *Sleeping Venus*. The domed building in the far background of his mysterious painting *The Tempest* has been dubiously connected to the Temple of Venus from the *Hypnerotomachia*.

ANSWER: **Giorgione** [or Giorgio **Barbarelli** da Castelfranco; accept **Zorzo** or **Zorzon**; prompt on "Castelfranco"]

15. In a thought experiment devised by Gregory Kavka, an "eccentric billionaire" offers you a million dollars if you can form this mental state in regards to drinking a toxin. For 10 points each:

[10] Identify this mental state. A book by G. E. M. Anscombe titled for this concept uses the example of a shopping list to illustrate the difference between conative ("CON"-ah-tiv) and cognitive mental states.

ANSWER: **intention(s)** [accept word forms such as **intending** or **intent**; prompt on synonyms such as "**desire**" or "**plan**" or "**reasons**"; do not accept or prompt on "intentionality"]

[10] Having the intention to obscure a known truth is what differentiates these statements from Harry Frankfurt's concept of "bullshit." A paradox is generated by a person claiming to always make these statements.

ANSWER: **lies** [accept word forms such as **lying** or equivalents such as **falsehoods**]

[10] This American thinker borrowed Wilfrid Sellars's term "we-intentions" to describe communal senses of morality in his book *Contingency, Irony, and Solidarity*.

ANSWER: Richard **Rorty** [or Richard McKay **Rorty**]

16. This chemist and Walter Heitler (VAL-tur "HEIGHT"-lur) formulated the idea of the exchange interaction in their early model of the hydrogen molecule. For 10 points each:

[10] Name this physicist who hypothesized that instantaneous induced dipoles could create intermolecular attractive forces in nonpolar compounds, which are his namesake dispersion forces.

ANSWER: Fritz **London** [accept **London** dispersion forces]

[10] London derived the formula for the dispersion forces by applying the first-order type of this method to a system of dipoles. In this method, you add a correction term to a simple Hamiltonian to model a disturbance.

ANSWER: **perturbation** theory

[10] London derived the potential energy of the interaction to depend on the atoms' polarizabilities, their distances, and the harmonic mean of this quantity for the atoms. On a Franck-Condon diagram, the two forms of this quantity represent the vertical distance between the two bond-energy curves.

ANSWER: **ionization energy** [or vertical **ionization energy**; or adiabatic **ionization energy**; or **ionization enthalpy**; or **ionization potential**]

17. Alexander Kerensky's Provisional Government created a so-called "Battalion of Death" that was most notable for this characteristic and that briefly fought in the July Offensive. For 10 points each:

[10] Name this characteristic. It was also the most distinctive aspect of a Soviet night bomber regiment that was nicknamed the "Night Witches" because the soft noise of their wooden Polikarpov Po-2 biplanes sounded like broomsticks.

ANSWER: **all female** [accept answers indicating that these units were composed of **women**]

[10] During the October Revolution, members of the First Petrograd Women's Battalion contributed to the failed defense of this St. Petersburg building against the Bolsheviks. Previously, it had served as the seat of Kerensky's government.

ANSWER: **Winter Palace** [prompt on the "State **Hermitage** Museum"]

[10] Lyudmila Pavlichenko (l'yud-MEE-lah pahv-lee-CHEN-ko), one of the most decorated female Soviet soldiers in history, recorded 309 kills as one of these specialists. These soldiers usually carry rifles equipped with scopes for firing from long distances.

ANSWER: **snipers** [accept synonyms such as **sharpshooters** or **marksmen** or **markswomen**]

18. A Tin Pan Alley standard describes one of these places as "dreamy dreamy" and as "where the lights are low." For 10 points each:

[10] Name this type of location that is the setting of the Rodgers and Hammerstein musical *Flower Drum Song*, which features the songs "I Am Going to Like It Here" and "I Enjoy Being a Girl."

ANSWER: **Chinatown** [accept "**Chinatown**, My Chinatown" or San Francisco's **Chinatown**]

[10] After writing *Flower Drum Song*, Rodgers and Hammerstein collaborated on this musical about the von Trapp family. It includes the numbers "Do-Re-Mi" and "My Favorite Things."

ANSWER: *The **Sound of Music***

[10] This performer directed the notoriously stereotype-heavy debut production of *Flower Drum Song*. He starred as Jerry Mulligan in Vincente Minelli's 1951 film adaptation of the Gershwin brothers' *An American in Paris*, and he sang the lyrics "what a glorious feeling / I'm happy again" in another film role.

ANSWER: Gene **Kelly** [or Eugene Curran **Kelly**] (The other film role was *Singin' in the Rain*.)

19. During one of these events, Abdul Haris (hah-REES), a leader of the Najran (nahj-rah-n) Christians, observed that the people on the opposing side had such pious faces that, if they ordered a mountain to move to them, it would do so. For 10 points each:

[10] Name these events in which two rival parties would meet and invoke the wrath of God on whichever side was lying. Mirza Ghulam Ahmad claimed victory in one of these events after the death of John Alexander Dowie.

ANSWER: **prayer duels** [or **mubahala** (mu-ba-ha-la)]

[10] The Najran Christians were challenged to *mubahala* by this prophet of Islam.

ANSWER: **Muhammad** [or **Muhammad** ibn Abd Allah]

[10] During that *mubahala*, Muhammad was also accompanied by these two sons of Fatimah and Ali, who were the second and third of the Twelve Imams. The elder ceded the caliphate to Muawiyah I (mu-AH-wee-ah "the first"), and the younger was martyred at Karbala.

ANSWER: **Hasan** and **Husayn** [accept in either order; accept Al-**Hasan** ibn Ali ibn Abi Talib and Al-**Husayn** ibn Ali ibn Abi Talib]

20. In Richard Wilbur's "Love Calls Us to the Things of This World," one of these entities prays "let there be clean linen for the backs of thieves" and that "the heaviest nuns walk in a pure floating of dark habits." For 10 points each:

[10] Name these entities that, according to another poem, have "Bandaged moments / when too appalled to stir." In a third poem, one of these entities is "unmoved" even though "an Emperor be kneeling / upon her Mat."

ANSWER: souls

[10] "The Soul has Bandaged moments" and "The Soul selects her own Society" were written by this Massachusetts poet, who described horses' heads pointing "toward Eternity" in her poem "Because I could not stop for Death."

ANSWER: Emily Dickinson [or Emily Elizabeth Dickinson]

[10] The soul in the aforementioned Richard Wilbur poem sees that "the morning air is all awash with" these beings. In Allen Ginsberg's "Howl," "hipsters burning for the ancient heavenly connection" have the heads of these beings.

ANSWER: angels [accept angelheaded hipsters]

Extra. According to the biography written by Willibald, this man cut down an oak tree that was sacred to Thor, all the while challenging Thor to strike him down. For 10 points each:

[10] Name this missionary who converted many German pagans in the 700s. On his final mission to Frisia, this saint was killed by a group of bandits who opened his chests looking for gold, only to find books and manuscripts.

ANSWER: Saint Boniface [accept Winfrid, Wynfrith, or Wynfryth]

[10] In the 13th century, a pope with this name sent John of Montecorvino as a missionary to China and the Mongols. This was the given first name of the only English pope, Adrian IV, who was surnamed Breakspear.

ANSWER: Nicholas [accept Nicholas IV or Nicholas Breakspear]

[10] Augustine, a missionary sent to Britain by Pope Gregory the Great, managed to convert Aethelberht (ATH-ul-berht) of Kent in 597. Augustine later became the first holder of this position, which is now the highest in the Church of England.

ANSWER: archbishop of Canterbury [prompt on "archbishop" or "Canterbury"]