2021 ACF Fall

Packet G by Cornell B, Haverford, VCU A, Waterloo A

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Tossups

1. Operation Paul Bunyan occurred in this region, in which a team of soldiers chopped down a poplar tree. The operation was in reaction to a previous incident when two Americans were axed to death while attempting to trim the same tree. Prisoner exchanges happen across the Bridge of No Return in this region, and its Joint Security Area features several blue houses for diplomatic meetings. The agreement establishing this region was signed in its village of Panmunjom. For 10 points, name this region that marks the boundary between two Asian nations on their namesake peninsula.

ANSWER: Korean <u>Demilitarized Zone</u> [or <u>DMZ</u>; prompt on the <u>border</u> between <u>North Korea and South Korea</u> or the <u>Korean Peninsula</u>]

<World History>

2. Vladimir Nabokov lampooned translators who flatly rendered a line by this poet as "I remember a wonderful moment." A character in a work by this author claims that marriage is boring and rejects a woman who writes him a love letter in French. In a poem by this author, the protagonist watches Parasha drown in a flood before a giant bronze statue comes to life and chases him. In a verse novel by this author, the title "superfluous man" dances with Olga at a ball causing Lensky to challenge him to a duel. For 10 points, name this Russian poet of "The Bronze Horseman" and *Eugene Onegin*.

ANSWER: Alexander <u>Pushkin</u> [or Alexander Sergeyevich <u>Pushkin</u>] <European Literature>

3. The Fountain of Samson is found in the Podil neighborhood of this country's capital city. This country's third largest city is home to a former Vladimir Lenin statue that was turned into one of Darth Vader. The Monastery of the Caves is found in this country's capital city which also contains the Saint Sophia Cathedral. The north of this country is home to the ghost town of Pripyat, which was evacuated due to a nuclear disaster in this country. Odessa is located in this country which disputes the Crimean peninsula with Russia. For 10 points, name this country where the Dnieper River crosses through its capital city of Kyiv.

ANSWER: Republic of <u>Ukraine</u> <Geography>

4. The R, D, F, and A vortices model the dynamics of this process, which species with a high genetic load are more likely to undergo. It's not evolution, but the "co-" form of this process commonly occurs after a keystone species undergoes it first. Anthropogenic effects such as ocean acidification and deforestation are thought to be responsible for high levels of this process in the Holocene relative to its background rate. The Chicxulub ("chick-shoo-LOOB") crater provides evidence for the Cretaceous–Paleogene event of this kind. For 10 points, name this process undergone by species such as the passenger pigeon, dodo bird, and *T. rex*.

ANSWER: <u>extinction</u> [accept <u>mass extinction</u>] <Biology>

5. In an early hit, this singer sang "Your heart's fluttering all day long" with Teddy Wilson on the track "What a Little Moonlight Can Do." This singer departed Artie Shaw's band after being asked to use the service elevator at the Lincoln Hotel. This singer released her final album, *Lady in Satin*, shortly before her death from cirrhosis. This singer described "blood on the leaves and blood at the root" of "Southern trees" in a song describing lynchings. Arthur Herzog, Jr. and this singer co-wrote her hit "God Bless the Child." For 10 points, "Strange Fruit" was first sung by what jazz singer known as "Lady Day"?

ANSWER: Billie **Holiday** [or Eleanora **Fagan**]

<Other Fine Arts>

6. The Waste Land alludes to this poem when describing the "sound of horns and motors" and "the rattle of the bones, and chuckle spread from ear to ear." This poem's speaker notes how his "echoing song" will not sound in a "marble vault" where "beauty shall no more be found." The speaker of this poem claims that he "by the tide / Of Humber would complain" while a person "Shouldst rubies find" "by the Indian Ganges' side." This poem's speaker says that his "vegetable love should grow" and he always hears "time's wingèd chariot hurrying near." The line "Had we but world enough and time" opens, for 10 points, what poem by Andrew Marvell addressed to an aloof woman? ANSWER: "To His Cov Mistress"

<British Literature>

calendar.

- 7. Poisson's ("pwa-sohn's") equation is a partial differential equation of this order. Rings are defined with this many operations. Each element of the Hessian matrix is a partial derivative of this order. This is the smallest positive number such that taking the derivative of sinh ("sinch") *x* this many times yields sinh *x*. It takes this many coordinates to uniquely specify the position of a point on the surface of a unit sphere. The sign of a function's derivative of this order determines whether it is concave up or down, and the derivative of *x* squared equals this number times *x*. For 10 points, squaring a number is equivalent to raising it to what power?

 ANSWER: **two** [accept **second**-order or **second**-degree or **second** derivative or **2***x* or **second** power]

 Other Science>
- 8. These structures often relied on the use of *gromas* and *chorobates* ("koro-BAH-tays"). An underground variant of these structures called *qanats* was developed in ancient Iran. These structures were the subject of a treatise by an official of Nerva named Frontinus and often built using *pozzolana* ash. One of these structures in Rome was the Anio Novus, other examples of which include ones in Segovia and one in modern-day Nimes, France called the Pont du Gard. Engineers often sloped these structures to transport a certain good to Roman cities, which was often channeled through pipes. For 10 points, name these structures meant to transport water in the Roman Empire. ANSWER: **aqueduct**s [prompt on <u>bridge</u>]

 <Other History>
- 9. Legendarily, the tradition of creating certain objects during this holiday originated when a group of villagers pretended to be on fire after killing a swan. As part of this holiday, those objects have riddles written on three sides so that children can guess what is on the fourth. Leading up to this holiday, a paper effigy kept above a household's stove is sweetened with honey and then burned to be sent back to Heaven. During this holiday, red envelopes of money are given to children as well as performers of the lion and dragon dances. For 10 points, name this annual holiday usually occurring in January or February which marks the end of a certain East Asian country's lunar

ANSWER: <u>Chinese New Year</u> [accept <u>Chūn Jié</u> or <u>Spring Festival</u> or or <u>Lunar New Year</u>, prompt on <u>New Year</u>; prompt on the <u>Lantern Festival</u> with "During what other holiday does the Lantern Festival occur?"] <Religion>

10. A member of the title group of people milk one of these animals in Delacroix's *Ovid Among the Scythians*. One of these animals is attacked by a lion in several paintings by George Stubbs. Several of these animals fill a tree-lined avenue in a Rosa Bonheur painting titled for their *Fair*. A stone inscribed with the words "KAROLUS MAGNUS" appears near the foot of one of these animals in a painting where it appears in front of infantrymen crossing a mountain pass. In that painting, the title ruler points upwards atop one of these animals. For 10 points, the title figure rides what type of animal in Jacques-Louis David's *Napoleon Crossing the Alps*?

ANSWER: <u>horse</u>s [accept <u>mare</u>us] <Painting/Sculpture>

11. This monarch sent troops to help relieve the Siege of Antwerp, as stipulated by the Treaty of Nonsuch. Pope Pius V issued the papal bull *Regnans in Excelsis*, expressing support for the overthrow of this monarch by Catholic nobles. Other Catholic plots against this ruler included the Throckmorton and Babington plots, both of which were foiled by spymaster Francis Walsingham. This Protestant ruler succeeded Queen Mary I, and during her reign, the casket letters were used to implicate her Catholic cousin, Mary, Queen of Scots. For 10 points, name this member of the House of Tudor, England's "virgin queen."

ANSWER: Queen **Elizabeth I** [prompt on **Elizabeth**] <European History>

12. One form of this deity is a god of equilibrium named Aani. A forbidden book written by this deity is guarded by serpents and hidden in five nested boxes. This deity and Shu convinced Tefnut to return home from Nubia. This deity was syncretically combined with a similar Greek god into a figure named Hermes Trismegistus. The female counterpart of this deity is Seshat. To help Nut give birth, this god won enough light for five extra days by gambling with the moon god Khonsu. This god healed the eyes of Horus and helped Isis revive Osiris. For 10 points, name this ibis-headed Egyptian god of wisdom.

ANSWER: <u>Thoth</u> [or <u>Djehuty</u>] <Mythology>

13. The Sears–Haack body experiences the minimum amount of one form of this quantity. One formula used to find this quantity sets it equal to one half times flow velocity squared times the product of density, the cross-sectional area, and this quantity's namesake coefficient. The parasitic form of this quantity is negatively correlated with the lift-induced form of this quantity. Stokes' law can be used to find this quantity for very small Reynolds numbers. A falling object reaches terminal velocity when this force balances gravity. For 10 points, name this frictional force that prevents movement through fluids, including air.

ANSWER: **drag** [or **air resistance**; or **fluid resistance**; prompt on <u>friction</u>] <Physics>

14. In one work, this philosopher wrote that barbarians needed an "implicit obedience to an Akbar or a Charlemagne" before the title concept was applicable to them. In one essay, this philosopher wrote that there "remain no legal slaves, except the mistress of every house"; that essay, co-written with Harriet Taylor, was *The Subjection of Women*. This thinker used the idea of self-regarding conduct to defend his principle that power can only be exercised over someone to prevent harm to others. Another of this man's works expands on the "greatest happiness principle" developed by Jeremy Bentham. For 10 points, name this British writer of *On Liberty* and *Utilitarianism*.

ANSWER: John Stuart <u>Mill</u> <Philosophy>

15. In a novel from this country that is framed as a letter to the Chinese Premier Wen Jiabao, the narrator divides society into those with "Big Bellies" and those with "Small Bellies." A character in another novel from this country is forced to wave flags during a Communist rally, where she sees a servant who works in the Paradise Pickles & Preserves company. The protagonist sets up a taxi business in this country in the novel *The White Tiger*. The twins Rahel and Estha reunite at the end of another novel from this country. For 10 points, name this home country of Aravind Adiga and the author of *The God of Small Things*, Arundhati Roy.

ANSWER: Republic of <u>India</u> <World/Other Literature>

16. The Bell-Evans-Polanyi principle relates this quantity to the enthalpy of reaction. One method for calculating this quantity involves finding the slope of the line of best fit on a plot of $\log k$ versus one over T. Substituting deuterium for hydrogen *increases* this quantity in the kinetic isotope effect. The Arrhenius equation relates the rate constant to the exponential of negative this quantity over RT. On a reaction coordinate diagram, this quantity represents the height of the potential barrier separating the initial and final thermodynamic states of a reaction. For 10 points, name this quantity symbolized E-sub-a that is lowered by catalysts.

ANSWER: <u>activation energy</u> [accept <u>E-sub-a</u> before mention] <Chemistry>

17. A man of this ethnicity published a bomb-making manual ironically named *Health is in You!* as part of his advocacy for the "propaganda of the deed." Mail bombs sent to industrialists by followers of a man of this ethnicity led to the Palmer Raids. In 1977, Michael Dukakis formally apologized for the wrongful execution of a pair of men of this ethnicity. That pair of men of this ethnicity were executed for a murder they were convicted of in Braintree, Massachusetts. For 10 points, many Progressive Era anarchists in the U.S were of what ethnicity shared by Bartolomeo Vanzetti and Luigi Galleani?

ANSWER: <u>Italian</u>s [or <u>Italian-American</u>s] <US History>

18. In this musical's first staging after the 2021 Broadway reopening, the line "isn't it good to see me?" was met with show-stopping applause. This musical's main characters express "loathing, unadulterated loathing" for each other after becoming roommates at Shiz University. This musical opens with a crowd cheering "good news, she's dead!" and that "no one mourns" the title people. At the end of this musical's first act, the protagonist enchants a broomstick and uses it to fly during the song "Defying Gravity." For 10 points, name this musical by Steven Schwartz that focuses on Elphaba's transformation into the antagonist from *The Wizard of Oz*.

ANSWER: *Wicked* < Pop Culture>

19. The narrator of this novel compares an arm that locks him in a "matrimonial" embrace to a counterpane. This novel is preceded by the "Etymologies" and "Extracts" of the "consumptive usher" and the "sub-sub librarian." During a "damp, drizzly November in [his] soul," the narrator of this novel lodges at Peter Coffin's Spouter Inn and attends a sermon by Father Mapple. Drawn to the scrimshaw ornaments on the ship, that narrator and the tattooed harpooner Queequeg join the crew of the *Pequod*. This novel opens with the line, "Call me Ishmael." For 10 points, name this novel about Captain Ahab's hunt for the white whale, by Herman Melville.

ANSWER: *Moby Dick*; or, The Whale <US Literature>

20. A tone poem by this composer that opens with A minor chords played in successively higher octaves by strings is part of a four-movement suite drawing from this composer's unfinished opera *The Building of the Boat*. This composer used a trombone motif to represent his wife Aino in his seventh symphony, which has only one movement. A solo English horn melody represents a bird guarding the underworld in a tone poem from this composer's *Lemminkäinen Suite*. A nationalistic tone poem by this composer was performed under various aliases in order to circumvent Russian censorship. For 10 points, name this composer of *The Swan of Tuonela* and *Finlandia*. ANSWER: Jean Sibelius

<Classical Music>

Bonuses

1. In 1973, the National Art Gallery of Australia needed authorization from the prime minister to purchase one painting by this artist for over 1 million dollars. For 10 points each:

[E] Name this New York-based "action painter" who used his characteristic drip method to create paintings like *Blue Poles*, *Full Fathom Five*, and *Lavender Mist*.

ANSWER: Jackson Pollock

[M] This other abstract expressionist painted the *Woman* series after Pablo Picasso's paintings of Dora Maar. His wife Elaine noted that he'd go through hundreds of images on a given canvas in creating a painting for that series.

ANSWER: Willem de Kooning

[H] Elaine de Kooning created almost two dozen paintings of this politician, whose death caused her to quit painting for a year. An Aaron Shikler portrait of this politician depicts him with his head down and arms crossed.

ANSWER: John F. Kennedy [or JFK; accept Jack Kennedy]

<Painting/Sculpture>

2. The acidity of acetic acid is strengthened by this chemical property, since when it loses a proton to become acetate, the negative charge is delocalized over both oxygen atoms. For 10 points each:

[M] Name this property that can be represented with a double-headed arrow. Major contributors to this property tend to have lower energy and fewer charged atoms, and compounds with this property have delocalized electrons.

ANSWER: <u>resonance</u> [accept <u>resonance</u> structures or <u>resonance</u> forms]

[E] One common example of a compound with resonance is this molecule with 18 valence electrons. Its namesake layer in the stratosphere protects the Earth's surface from ultraviolet radiation.

ANSWER: **ozone** [or O_3]

[H] The intermediate of this reaction is a sigma complex with three possible resonance structures. This electrophilic aromatic substitution reaction adds an alkyl group to an aromatic ring and is catalyzed by a Lewis acid like aluminum trichloride.

ANSWER: <u>Friedel-Crafts</u> alkylation [do not accept or prompt on "Friedel-Crafts acylation"] <Chemistry>

3. Two humans named Lif and Lifbrasir ("leef" and "LEEF-thrah-seer") are foretold to survive this event by hiding in Hoddmimis ("hohd-MEE-mees") holt. For 10 points each:

[E] Name this event, the end of the world in Norse mythology.

ANSWER: Ragnarok

[H] At the beginning of Ragnarok, the all-seeing deity Heimdall will awaken the other gods by blowing on this loud instrument. The sound from this instrument can be heard through all worlds.

ANSWER: **Gjallarhorn** [prompt on horn]

[M] During Ragnarok, Thor will defeat this gigantic creature in battle. However, after taking just nine more steps, Thor will also collapse and succumb to this creature's venom.

ANSWER: **Jornungand**r [accept **Midgard Serpent** or **World Serpent**, prompt on <u>serpent</u>] <Mythology>

- 4. This dictator's wife was mocked after mispronouncing the formula for carbon dioxide in a public speech. For 10 points each:
- [H] Name this dictator who was executed along with his wife after a violent overthrow in 1989. This dictator succeeded Gheorghe Gheorghiu-Dej ("GEH-yorg-eh GHE-yorg-yu Dej") as leader of his country and authored the July Theses.

ANSWER: Nicolae Ceausescu

[E] Ceauşescu ("chow-SHESK-oo") was the General Secretary of this Eastern Bloc country's Communist Party from 1965 to 1989. Ceauşescu's fall from power was precipitated by protests in this country's capital of Bucharest.

ANSWER: Romania

[M] Ceauşescu's July Theses were partly inspired by this other communist leader. This leader's country was the subject of a high-profile split with the Soviet Union, which helped lead to this leader's Cultural Revolution.

ANSWER: **Mao** Zedong <European History>

5. This woman says, "Give me a girl at an impressionable age and she is mine for life." For 10 points each:

[H] Identify this Scottish school teacher who convinces Joyce Emily to run off to fight for Franco and is "betrayed" by Sandy Stranger in a novel by Muriel Spark.

ANSWER: Miss <u>Jean Brodie</u> [accept either underlined portion; accept *The Prime of Miss <u>Jean Brodie</u>*]

[M] As a child, Sandy Stranger fantasizes about Alan Breck Stewart after reading about him and his time with David Balfour in this author's novel *Kidnapped*.

ANSWER: Robert Louis **Stevenson** [Robert Lewis Balfour **Stevenson**]

[E] This other novel by Robert Louis Stevenson follows Jim Hawkins as he and a few friends attempt to find the riches of Captain Flint while evading the pirates commanded by Long John Silver.

ANSWER: *Treasure Island*, or the Mutiny of the Hispaniola

<British Literature>

- 6. The expression for this quantity for an electron involves the Landé *g*-factor. For 10 points each:
- [H] Name this quantity produced by moving charges that is symbolized by m. For a loop of current, this quantity is equal to the current times the enclosed area.

ANSWER: magnetic moment [or magnetic dipole moment; prompt on moment or dipole moment alone]

[E] The electron's magnetic moment equals the product of the Landé *g*-factor, angular momentum over *h*-bar, and this physicist's namesake "magneton." It's not Rutherford, but this Danish physicist's model of the atom involves electrons in discrete, circular orbits.

ANSWER: Niels David Henrik **Bohr** [accept **Bohr** magneton or Rutherford-**Bohr** model]

[M] Taking the cross product of the magnetic moment and the applied magnetic field yields this quantity. For a circular object that rolls without slipping, this quantity equals the force of friction times the object's radius.

ANSWER: torque [accept tau or moment of force]

<Physics>

7. Pope John XXII ("the 22nd") banned this type of musical texture, which was described in the 9th century treatise *Musica enchiriadis* ("en-keer-ee-AH-dis"). For 10 points each:

[M] Name this musical texture in which two or more independent melodies are present simultaneously.

ANSWER: **polyphony** [accept word forms like **polyphonic**]

[E] Guillaume de Machaut wrote an early polyphonic work of this type titled for "Our Lady," or *Nostre Dame*. "Requiem" types of these liturgical pieces were written for the dead.

ANSWER: <u>mass</u> [or <u>Missa</u>; accept requiem <u>mass</u>]

[H] This composer's polyphonic Pope Marcellus Mass is legendarily said to have "saved polyphony" from being banned at the Council of Trent.

ANSWER: Giovanni Pierluigi da Palestrina

<Classical Music>

8. In this poet's Fragment 31, sometimes known as "phainetai moi" ("fye-na-tie moy"), the speaker observes a man who talks with her love interest. For 10 points each:

[M] Name this Greek poet from the island of Lesbos, sometimes known as the "Tenth Muse," who wrote the poem "Ode to Aphrodite."

ANSWER: Sappho

[E] The poetry collection *The Tenth Muse Lately Sprung Up in America* was written by Anne Bradstreet, who lived most of her adult life in this colony. Nathaniel Hawthorne set his novel *The Scarlet Letter* in this colony's capital, Boston.

ANSWER: Massachusetts Bay Colony [prompt on America]

[H] This 17th century Mexican nun is also sometimes known as the "Tenth Muse." This subject of *The Traps of Faith* by Octavio Paz wrote the poem "First Dream" and the letter *Reply to Sister Filotea*.

ANSWER: Sor <u>Juana</u> Inés de la Cruz [or Doña Inés de <u>Asuaje</u> y Ramírez de Santillana]

<World/Other Literature>

9. Answer some questions about a group of elite warriors called "The Immortals," for 10 points each:

[M] "The Immortals" were an elite unit of 10,000 infantry in the army of this empire. The tyrant Aristagoras led a rebellion against this empire during the Ionian revolt.

ANSWER: the First **Persia**n Empire [or the **Achaemenid** Empire]

[H] This historian referred to that elite Persian unit as "The Immortals." This historian from Halicarnassus authored a work divided into nine books, named for each of the Muses.

ANSWER: **Herodotus**

[E] The Immortals also saw action at the Battle of Thermopylae against Greek forces under this city-state's king Leonidas. This militaristic Greek city-state trained its soldiers through the *agoge* and held slaves known as *helots*.

ANSWER: **Sparta** < Other History>

10. By one definition, these traits contribute towards eudaimonia ("you-DIE-mo-nee-ah"). For 10 points each:

[M] Name these traits. These traits name an ethical theory contrasted with deontology and utilitarianism that was originally developed in Aristotle's *Nicomachean Ethics*.

ANSWER: virtues

[H] This philosopher reintroduced Aristotle's virtue ethics in her paper "Modern Moral Philosophy." This woman coined the term "consequentialism" to describe its conflict with deontology before rejecting both philosophies.

ANSWER: G. E. M. <u>Anscombe</u> [or Elizabeth <u>Anscombe</u> or Gertrude Elizabeth Margaret <u>Anscombe</u>]

[E] Aristotle conceptualized virtues as a "mean" between two vices referred to by this adjective. A rule described by this adjective developed independently in many cultures can be written as "treat others as you want to be treated."

ANSWER: golden

<Philosophy>

- 11. The Three Rivers Nature Reserve in the Tibetan Plateau contains the headwaters of the three longest Asian rivers: the Yangtze, the Yellow, and this river. For 10 points each:
- [M] Name this river. It is known as the Nine Dragons River in Vietnam, which contains the mouth of this river.

ANSWER: Mekong River

[E] The Mekong flows through the major port of Phnom Penh, the capital of this country home to the Khmer people and the Angkor Wat complex.

ANSWER: Cambodia

[H] The Mekong is connected to this "great lake" of Cambodia by a namesake river that flows in both directions throughout the year. This lake swells to more than triple its size during the wet season and provides the majority of Cambodia's fish.

ANSWER: Tonlé Sap

- 12. Similar to an interface, an "abstract" one of these things does not implement one or more of its methods. For 10 points each:
- [M] Name these central structures of object-oriented programming, which provide templates for objects. They often have both instance variables and static variables, and can inherit from their parents.

ANSWER: classes [accept abstract classes]

[E] In this common object-oriented programming language, every public class must have its own file. This language, whose logo is a coffee cup, was originally developed by Sun Microsystems.

ANSWER: Java

[H] In Java, this kind of class can be defined by putting a type parameter in angle brackets in the class name. Classes of this type often have variables whose type is specified by the user instead of being predefined.

ANSWER: **generic** classes [or **generic**s]

<Other Science>

- 13. In this short story, intelligent people are forced to wear thought-disrupting radios and beautiful people are forced to wear masks. For 10 points each:
- [H] Name this story set in the year 2081 when "everybody was finally equal." After declaring himself Emperor, the title 7-foot tall 14-year-old of this story is killed by the Handicapper General Diana Moon Glampers.

ANSWER: "Harrison Bergeron"

[E] "Harrison Bergeron" is a story written by this author who described the life of Billy Pilgrim in his novel *Slaughterhouse-Five*.

ANSWER: Kurt Vonnegut Jr.

[M] In *Slaughterhouse-Five*, Billy is introduced to the works of Kilgore Trout by this character in a hospital ward. This philanthropist from Indiana helps out a woman named Diana Moon Glampers in a Vonnegut novel titled *God Bless You*, [this character].

ANSWER: Eliot Rosewater [accept God Bless You, Mr. Rosewater]

<US Literature>

- 14. For 10 points each, answer some questions about wearable art.
- [E] Netsuke, which are made from carved ivory, are used as an accessory on the obi sash of this traditional Japanese robe.

ANSWER: kimono

[H] Inspired by botanical motifs, including those in Japanese art, designers René Lalique and Henri Vever used colored glass and enamel to create jewelry in this curvilinear style. This style preceded the geometrical "Deco" style.

ANSWER: Art Nouveau

[M] This American artist designed jewelry made of swirls of hammered metal, connected by wire. His earrings may have inspired his kinetic hanging sculptures, which suspend sheet metal and sometimes use his namesake "red."

ANSWER: Alexander Calder

<Other Fine Arts>

- 15. Answer some questions about the Chinese Civil War, for 10 points each:
- [E] The conflict took place between the forces of the Kuomintang led Republic of China and the forces of this other political party. This is the sole ruling party of the modern-day People's Republic of China.

ANSWER: Chinese **Communist** Party [or **CCP**]

[M] This generalissimo led the KMT for much of the war after the death of Sun Yat-Sen. After the victory of the Communists, this man served as the first president of the Republic of China on the island of Taiwan.

ANSWER: Chiang Kai-Shek [or Jiang Jieshi]

[H] Chiang was forced to end the first phase of the war and form a united front against the Japanese alongside the communists after he was kidnapped in an incident named for this city. This city and Luoyang were the capitals of the Tang dynasty.

ANSWER: Xi'an [accept Chang'an]

<World History>

16. The oldest existing temple for this religion is located in Wilmette, Illinois, thousands of miles away from its Universal House of Justice in Haifa. For 10 points each:

[M] Name this monotheistic religion. This religion, founded by a follower of the Bab, stresses the unity of all religions and people.

ANSWER: the Bahá'í faith

[E] The Festival of Ridvan celebrates Bahá'u'lláh's ("ba-HOW-la's") 12 day stay in one of these locations after being exiled. In the Bible, Adam and Eve are expelled from one of these locations after eating the forbidden fruit.

ANSWER: garden [accept Garden of Ridvan; accept the Najibiyyih Garden; accept the Garden of Eden]

[H] This grandson of 'Abdu'l-Bahá launched a Ten Year Crusade to expand the faith worldwide. This man is known as "the Guardian" by adherents of the Bahá'í faith.

ANSWER: Shoghi Effendi Rabbání [accept either underlined portion]

<Religion>

- 17. This author described how a hotel charged him an exorbitant amount of money for trying to refrigerate a fish. For 10 points each:
- [H] Name this author of the comical essay collection *How to Travel with a Salmon*. Near the beginning of a novel by this author, the protagonist is told about a man who had fallen to his death from a tower after he deduces the location of the missing horse Brunellus.

ANSWER: Umberto Eco

[M] That aforementioned novel by Umberto Eco is this one in which William of Baskerville investigates a series of murders in a Benedictine monastery.

ANSWER: The <u>Name of the Rose</u> [or Il <u>nome della rosa</u>]

[E] In an essay from *How to Travel with a Salmon*, Eco comically wrote how to "justify" owning a private location of this type. The 3rd century BC poet Callimachus catalogued the contents of one of these institutions in Alexandria before it was destroyed centuries later.

ANSWER: <u>library</u> <European Literature>

- 18. This psychologist theorized that the reason people experiencing psychosis exhibit excessive inhibition is that they are trying to block out potentially triggering stimuli. For 10 points each:
- [H] Name this psychologist. He believed that his most famous development was governed by the contiguity model, a view later challenged by Robert Rescorla's contingency model.

ANSWER: Ivan Pavlov

[M] Pavlov is best known for developing the classical variety of this technique in experiments on dogs. In that version of this technique, a neutral stimulus is repeatedly followed by a responsive stimulus.

ANSWER: conditioning [accept classical conditioning]

[E] John Watson conditioned a baby to fear one of these animals in the Little Albert experiment. These animals often feature in experiments involving mazes, and can be chosen over mice as subjects because of their larger brains.

ANSWER: <u>rat</u> <Social Science>

- 19. Answer the following about the Miller–Urey experiment, for 10 points each:
- [E] The experiment's setup consisted of a gas chamber that did *not* contain this molecule in order to simulate the Earth's early atmosphere. Photosynthesis produces glucose and this diatomic gas.

ANSWER: oxvgen gas [or O_2]

[M] Several of these zwitterionic molecules were formed in the Miller–Urey experiment from formaldehyde, ammonia, and cyanide.

ANSWER: amino acids

[H] The amino acids formed in the Miller–Urey experiment were created by this most common amino acid synthesis reaction, in which an amino acid is created by hydrolyzing an alpha-aminonitrile.

ANSWER: <u>Strecker</u> synthesis [or <u>Strecker</u> reaction or <u>Strecker</u> amino acid synthesis] <Biology>

- 20. Upon his arrival at the Pan-American Exhibition in Buffalo, New York, this man was handed a telegram telling him that President McKinley had just been shot at the event. For 10 points each:
- [H] Name this former Secretary of War, who visited McKinley on his sickbed and left Buffalo convinced he was recovering from his gunshot wounds. McKinley died of infection a week later.

ANSWER: Robert Todd Lincoln [prompt on Lincoln]

[M] Lincoln served as Secretary of War under this president. Alexander Graham Bell invented a metal detector in an unsuccessful attempt to save this president, whose death led to the passage of the Pendleton Act.

ANSWER: James Garfield

[E] This man's brother Edwin once saved Robert Todd Lincoln's life by pulling him from between a moving train and a station platform. Approximately one year later, this man would shoot Robert Todd Lincoln's father.

ANSWER: **John Wilkes Booth** [prompt on Booth]

<US History>