

2020 ACF Fall

Packet A by Lakeland A, USC A, UVA A

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Tossups

1. In the 1870s, Henry Wickam smuggled seventy thousand seeds of this plant to India. Production of this crop contributed to the 19th-century growth of cities like Santarém (“sahn-tuh-REM”), Belém (“bay-LEM”), and Manaus (“mah-NAH-oos”). “Fordlandia” was a plantation town intended to harvest this crop. The “Red” system for producing this crop was overseen by the Force Publique (“poo-BLEEK”), who would cut off the hands of forced laborers who did not collect enough of it. This crop was processed more efficiently as a result of Charles Goodyear’s work. For 10 points, name this crop harvested in Leopold II’s Congo Free State that was used for manufacturing tires.

ANSWER: **rubber** [accept *Landolphia ovariensis* or *Hevea brasiliensis*; accept Pará **rubber** or Congo **rubber**]
<Other History>

2. This artist studied under Arthur Wesley Dow at the University of Virginia, and created watercolors of the school’s architecture. This artist depicted curtain-like fabric around a black column that supports the central object in a painting subtitled *Red, White, and Blue*. This artist included her husband’s name in a red bar in a painting of the Radiator Building. This artist’s detailed depictions of plants include *Red Canna* and *Jimson Weed*. This artist painted cliff formations that she called “the White Place” and Black Mesa in the desert scenes she created while living in New Mexico with her husband Alfred Stieglitz. For 10 points, name this artist best known for her paintings of animal skulls and suggestive flowers.

ANSWER: Georgia Totto **O’Keeffe**
<Painting/Sculpture>

3. A co-host of a Thai spinoff of this show drew a distinction between this show’s central practice and Thai *kathoey* (“ka-TUH-ee”) by contrasting it with Miss Tiffany’s Universe. Two popular contestants on this show published a *Guide to Modern Womanhood* in 2020. This show’s library challenge popularized the slang term “reading.” The winner of this show’s Season 4 impersonated its frequent guest judge Michelle Visage on the recurring challenge “Snatch Game.” In Season 6 of this show, Bianca Del Rio performed so dominantly that she never had to “lip-sync for her life.” For 10 points, name this American reality television show hosted by RuPaul.

ANSWER: *RuPaul’s Drag Race*
<Current Events/Geography/Other Academic/Pop Culture>

4. Pre-Inca cultures built *andenes* (“ahn-DEN-ess”) to facilitate this process. The rings of the von Thünen model separate different types of this process. Communal space is divided up to be employed in this process in Mexico’s *ejido* (“ay-HEE-doh”) system. Advances in the efficiency of this process led to the 1970 Nobel Peace Prize being awarded to Norman Borlaug. Historically, Mesoamerican people have used *chinampas* to accomplish this process on lake beds. Aboriginal people burn trees to clear room for this process in its “fire-stick” variety. This process became widespread during the first Neolithic Revolution. The three-field system is a method of, for 10 points, what process that produces food from the soil?

ANSWER: **farming** [or terrace **farming**; or **agriculture**]
<Current Events/Geography/Other Academic/Pop Culture>

5. In this country, rebels defending a volcanic crater were massacred at Bud Dajo (“bood DA-ho”). The first constitution of this country was created by the Malolos Congress, while its path to independence was legislated through the Tydings–McDuffie Act. In the early 1900s, a rebellion in this country launched by its muslim Moro population was suppressed with the help of John Pershing. This country’s president Emilio Aguinaldo (“ah-gee-NAHL-doh”) led an insurrection against a former allied power who had helped liberate this country from Spanish rule. For 10 points, name this Pacific nation that the US seized after the Battle of Manila Bay.

ANSWER: **Philippines** [or Republika ng **Pilipinas**; accept First **Philippine** Republic; accept **Malolos** Republic until read]

<American History>

6. When first meeting the protagonist of this work, a character is said to have a “sly grin, as if they had a good joke together.” In this novel, a blossoming pear tree kissed by bees during springtime symbolizes the protagonist’s sexual awakening, after which she kisses the local boy Johnny Taylor. This novel’s protagonist leaves the older farmer Logan Killicks to elope with Jody Starks. This novel’s protagonist is acquitted by an all-white jury for shooting her husband, who was bitten by a rabid dog during a hurricane. After the death of Tea Cake, Janie Crawford returns to Eatonville in, for 10 points, what novel by Zora Neale Hurston?

ANSWER: ***Their Eyes Were Watching God***

<American Literature>

7. This scientist devised an equation that computes the time derivative of the distribution function to model how particles are transported in fluids. This scientist is the [emphasize] *second* namesake of an equation which states that the radiant emittance of a blackbody is directly proportional to its temperature raised to the fourth power. This scientist’s namesake constant multiplied by three-halves temperature yields the average kinetic energy of a gas, and that constant multiplied by the log of the number of microstates gives entropy. For 10 points, name this man whose work with James Maxwell led to the description of the speed distribution of ideal gases at a particular temperature.

ANSWER: Ludwig **Boltzmann**

<Chemistry>

8. A man had a dream about delivering one of these objects and the fruit of three branches into the Pharaoh’s hand, which Joseph interprets favorably. At Gethsemane (“geth-SEM-uh-nee”), Jesus asks God to take one of these things from him, saying “Not as I will, but as you will.” When Jesus tells James and John that he may not decide who sits at his right and left, he says that they may use these objects that he uses. Benjamin is accused of stealing a silver one of these objects when Joseph tests his brothers. Earlier, while holding one of these things after his disciples ate, Jesus says, “this is my blood of the new covenant.” For 10 points, what type of objects serve wine during the Eucharist?

ANSWER: **cups** [accept Joseph’s silver **cup**; accept Pharaoh’s **cups**; accept Holy **Grail**]

<Religion>

9. An epic poem set in this decade features characters like Dai Greatcoat and John Ball; that poem is David Jones’s *In Parenthesis*. A work written in this decade closes by comparing each slow dusk to “a drawing-down of blinds.” A poem set in this decade compares a man’s “hanging face” to “a devil’s sick of sin” and describes “vile, incurable sores on innocent tongues.” Another poem about this decade opens by asking “What passing-bells for these who die as cattle?” For 10 points, *Anthem for Doomed Youth* and *Dulce et Decorum Est* were written by Wilfred Owen during what decade in which World War I took place?

ANSWER: **1910s** [prompt on ’10s or teens]

<British Literature>

10. This organelle can import oligomeric proteins with only some of its subunits having its target signal in a process known as piggyback importing. Derivatives of these organelles that are used by fungi to plug hyphal wounds are known as Woronin bodies. Defects in the PEX genes that code for this organelle's proteins cause biogenesis disorders such as Zellweger syndrome. Fatty acids too large to be processed by the mitochondria undergo beta oxidation in this organelle. These organelles use the enzyme catalase to break down a namesake compound. For 10 points, name these organelles involved in the metabolism of hydrogen peroxide.

ANSWER: **peroxisomes**

<Biology>

11. David Maslanka wrote a "short symphony" for this ensemble titled *Give Us This Day*. Modern works written for this ensemble include *Equus* ("ek-wuss") and *October*, both composed by Eric Whitacre. An 8-bar solo shared by the tuba and euphonium begins the "Chaconne" movement of Gustav Holst's First Suite in E-flat for this ensemble. A composer who wrote many pieces for this ensemble that often included "dogfight" sections also conducted one of these ensembles nicknamed "The President's Own." For 10 points, "The Stars and Stripes Forever" and other marches were written by John Phillip Sousa for what ensemble?

ANSWER: concert **band** [or military **band**; or symphonic **band**; or marching **band**; or wind **band**; or **wind ensemble**]

<Classical Music>

12. As part of the Capitulary for the Jews, this ruler banned Jewish subjects from engaging in money-lending. After conquering them, this ruler gave a specialized law code to the Frisians. This ruler developed a system of rotating local administrators known as *missi dominici* ("mee-see doh-MEE-nee-chee"). After Widukind's ("VEE-doo-kint's") Rebellion, this ruler ordered the slaughter of thousands of captured Saxons. After defeating Desiderius ("dess-ih-DARE-ee-us"), this man united his kingdom with the Lombards. This man's biographer Einhard chronicled a coronation ceremony on Christmas day in 800 in which Pope Leo III granted him a new title. For 10 points, name this "great" Frankish king, the first Holy Roman Emperor.

ANSWER: **Charlemagne** [or **Carolus Magnus**; or **Charles I**; or **Charles** the **Great**; prompt on **Charles**]

<European History>

13. In a novel from this country, one character falsely confesses after a stolen watch is found under his mattress. Another novel from this country contrasts the stigma faced by the illegitimate Mariam with Laila's relative privilege. A novel from this country ends in America with the newly-adopted Sohrab giving a lopsided smile, after which another character begins running with the words "For you, a thousand times over." The friendship of Hassan and Amir is central to that novel from this country, which is the setting of *A Thousand Splendid Suns*. For 10 points, name this country where Khaled Hosseini ("HA-led ho-SAY-nee") set *The Kite Runner*, a novel partly inspired by the actions of the Taliban.

ANSWER: **Afghanistan**

<World/Other Literature>

14. A July 2020 paper using data from SOHO found that these events are often followed by large earthquakes, and posits that that phenomenon is due to the inverse piezoelectric (“pee-AY-zo-electric”) effect. Through photoionization, these events can cause sudden ionospheric disturbances. These events and CMEs result when magnetic reconnection accelerates particles near the speed of light, which usually happens near darker, cooler areas on the photosphere of a namesake body. These events, which may be followed by coronal mass ejections, usually originate from sunspots. For 10 points, name these events in which the Sun releases powerful UV and X-ray radiation.

ANSWER: **solar flares** [or **stellar flares**; prompt on **flares**]

<Other Science>

15. During this period, students were instructed to memorize the Imperial Rescript on Education. A government during this period called upon its citizens to “enrich the state, strengthen the military.” The short-lived Ezo Republic and Satsuma Rebellion were both attempts to counter progressive efforts undertaken during this period, which began after the Boshin War. This period included the creation of the Charter Oath, which sought to modernize beyond the perceived isolation and backwardness of the Tokugawa Shogunate. For 10 points, name this period in the late 19th century during which Japan rapidly industrialized under a namesake emperor.

ANSWER: **Meiji** (“MAY-jee”) Restoration [or the **Meiji** Era; or the **Meiji** Renovation; or the **Meiji** Revolution; or the **Meiji** Reform]

<World History>

16. A book by this philosopher has a section that uses two columns to defend contradictory answers to four questions, including “Is the world finite in time and space?” In that book, this non-Aristotle philosopher uses a “table of judgments” to deduce twelve pure concepts of the understanding called “categories.” This philosopher wrote that David Hume’s skepticism about causality (“cause-AL-it-ee”) woke him from his “dogmatic slumber,” inspiring him to investigate the possibility of synthetic *a priori* (“pree-OR-ee”) judgments. According to this man’s doctrine of transcendental idealism, we do not have access to objects as “things-in-themselves.” For 10 points, what German Enlightenment philosopher wrote the *Critique of Pure Reason* and formulated the categorical imperative?

ANSWER: Immanuel **Kant** (“kahnt”)

<Philosophy/Social Science>

17. In a play from this country, a childless woman strangles her husband outside a hermitage in the mountains, then declares that she has killed her son. In a play from this country, a young woodcutter with a white face represents the moon, while an old beggar woman represents death. Another play from this country ends with Adela’s death after the title matriarch imposes an eight-year mourning period on her five daughters. A “Rural Trilogy” from this country includes a play in which Leonardo Felix and the Groom kill each other titled *Blood Wedding*. *The House of Bernarda Alba* is from, for 10 points, which country that was home to Golden Age author Federico García Lorca, who wrote “Lament for the Death of a Bullfighter”?

ANSWER: **Spain** [or Kingdom of **Spain**; or Reino de **España**]

<European Literature>

18. This figure spent his final days wandering the Plain of Aleion. This man battled the Solymi and defeated the Amazons by dropping boulders on them. Proetus sent this man to be killed by King Iobates (“eye-OB-uh-teez”) after this man was falsely accused of rape by Stheneboea (“s’THEE-nuh-BEE-uh”). After his steed was stung by a gadfly, this man fell while trying to ascend to Mount Olympus. This man won his most famous battle using a block of lead attached to a spear. After sleeping in a temple of Athena, this man awoke to find a golden bridle that he used to tame a flying horse. For 10 points, name this hero who slew the Chimera while riding Pegasus.

ANSWER: **Bellerophon**tes

<Mythology>

19. The composer of this opera took several themes from a music box that he received from the diplomat Baron Fassini-Camossi. In this opera’s first act, a children’s chorus sings a melody based on the folk song “Jasmine” as the moon rises, signalling the impending arrival of the Prince of Persia. Luciano Pavarotti’s (“pah-vuh-ROT-tee’s”) signature number was an aria from this opera, whose performers dramatically hold the final two syllables of its last word, “Vincerò!” (“veen-cheh-RO”). After solving the title character’s three riddles, the suitor Calaf boasts of his impending victory in this opera’s aria “Nessun Dorma.” For 10 points, name this opera about an icy Chinese princess, the final opera by Giacomo Puccini.

ANSWER: **Turandot** (“TUR-an-doh”)

<Other Arts>

20. The effective form of this quantity for rocket exhaust, which is equal to specific impulse times gravity, is used in Tsiolkovsky’s (“tsee-ol-KOV-skee’s”) rocket equation as a coefficient to solve for the maximum possible change in this quantity. The ratio between two values of this quantity is represented by beta in the denominator of the Lorentz factor. In Bernoulli’s equation for fluid dynamics, this quantity is squared and divided by 2. When drag force cancels out gravity, this quantity hits a constant “terminal” value. For 10 points, name the derivative of position with respect to time, a quantity that can be expressed in meters per second.

ANSWER: **velocity** [prompt on speed]

<Physics>

Bonuses

1. A 14th-century novel from this country describes the Peach Garden Oath being sworn by Liu Bei (“l’yoh bay”). For 10 points each:

[10] Name this country whose Four Great Classical Novels include *Journey to the West* and *Romance of the Three Kingdoms*, which is attributed to Luo Guanzhong (“gwen-jong”).

ANSWER: **China** [or **Zhōngguó** or **Zhōnghuá** or **Huáxià** or **Shénzhōu** or **Jiǔzhōu**]

[10] In this other Chinese Great Classical Novel, an outlaw group known as the Stars of Destiny opposes the oppressive government official Gao Qiu (“chee-oh”). Its characters include Wu Song, who kills a tiger.

ANSWER: **Water Margin** [or **Shuǐhǔ Zhuàn**; accept **Outlaws of the Marsh**, **Tale of the Marshes** or **All Men Are Brothers**]

[10] Wu Song also features in this Ming-dynasty novel, which is not typically considered one of the four great novels. This sexually explicit novel derives its title from the names of its three central female characters.

ANSWER: **The Plum in the Golden Vase** [or **Jin Ping Mei** or **The Golden Lotus**]

<World/Other Literature>

2. Anthropologist W. E. H. Stanner coined the term “everywhen” to describe this concept. For 10 points each:

[10] Name this mythological period during which ancestral spirits travelled along songlines and created the world.

ANSWER: **Dreamtime** [or the **Dreamings**]

[10] Dreamtime is a concept in the belief systems of many indigenous Aboriginal groups of this country, including the Noongar and Murrinh-Patha peoples.

ANSWER: **Australia** [or Commonwealth of **Australia**]

[10] This Australian Aboriginal creator deity was said to shape the Earth and create animals during Dreamtime. In some stories, this colorful deity creates rain by tickling the bellies of frogs.

ANSWER: **Rainbow Serpent** [or **Rainbow Snake**; prompt on **serpent** or **snake**]

<Mythology>

3. Answer the following about Confederate officer Jubal Early, for 10 points each.

[10] In 1864, Early led a Confederate attack on this city, during which Abraham Lincoln came under fire amid the Battle of Fort Stevens. The Union’s Department of War was based in this city on the Potomac River.

ANSWER: **Washington**, D.C. [or Washington, **D.C.**; or the **District of Columbia**]

[10] Early was defeated by this Union general at the Third Battle of Winchester. Late in the war, this man used scorched earth tactics to devastate the Shenandoah Valley.

ANSWER: Philip Henry **Sheridan**

[10] This general led the “Wolverines” to a victory against Early’s forces at Cedar Creek. This man was killed in a later battle where his 7th Cavalry was aided by the forces of Frederick Benteen and Marcus Reno.

ANSWER: George Armstrong **Custer**

<American History>

4. This composer's Fifth Symphony begins with a melancholy melody in E minor from a solo A clarinet that is later restated in a major key to begin the *Andante maestoso* finale. For 10 points each:

[10] Name this composer whose Fourth Symphony opens with a penetrating repeated A-flat fate motif on bassoons and horns that recurs throughout the symphony. His first symphony is subtitled "Winter Daydreams."

ANSWER: Pyotr Ilyich **Tchaikovsky** ("chye-KAWFF-skee")

[10] This last symphony by Tchaikovsky opens with a slow, foreboding bassoon solo. It shares its name with a Beethoven's 8th piano sonata.

ANSWER: **Pathétique** Symphony [or Symphony No. **6**]

[10] The second movement of the Pathétique Symphony is often described as a "limping" example of this dance genre as it is in 5/4 time. Johann Strauss II was known as the king of this genre, exemplified by his "On the Beautiful Blue Danube."

ANSWER: **waltz** [or **valse**]

<Classical Music>

5. G. Stanley Hall led a university founded by and named after a man with this surname that, with Johns Hopkins, was one of the main centers of early American psychology. For 10 points each:

[10] Give this surname also held by two psychologists whose work was recreated in Kiri Davis's documentary *A Girl Like Me*. That experiment involved asking children which doll they were presented with was the "nicer doll."

ANSWER: **Clark** [accept **Clark** University, Jonas Gilman **Clark**, or Kenneth and Mamie **Clark**]

[10] Five lectures were delivered at Clark University in 1909 about the practice of this psychological technique. This technique was practiced by the psychologists Karen Horney ("HORN-eye") and Melanie Klein.

ANSWER: **psychoanalysis** [accept **psychotherapy**; prompt on, but DO NOT REVEAL, descriptive answers such as **Freudian analysis**]

[10] Psychoanalysis was pioneered by this early Austrian psychologist who traveled to America in 1909 to give those lectures. This psychologist wrote *Beyond the Pleasure Principle*, in which he discussed the id, ego, and superego.

ANSWER: Sigmund **Freud** ("froyd")

<Philosophy/Social Science>

6. A layer of clay usually covers the confined types of these formations. For 10 points each:

[10] Name these formations of permeable rock that hold groundwater. Most of the Great Plains receives water from a huge one of these formations centered in Ogallala, Nebraska.

ANSWER: **aquifers**

[10] The groundwater in aquifers is obtained by drilling these structures. When the pressure in the aquifer is high enough that the water rises out of these structures on its own, they are called artesian.

ANSWER: **wells** [accept artesian **wells**]

[10] The flow of groundwater is described by applying this equation to Darcy's law. This equation results from the conservation of mass, and, for an incompressible fluid, states that the divergence of the flow velocity field is 0.

ANSWER: **continuity** equation

<Other Science>

7. In this story, the lawyer Coppelius and barometer-seller Coppola are revealed to be the same person. For 10 points each:

[10] Name this story that chronicles Nathanael's quest for Olympia. This story begins with Nathanael's father being visited at night by a mysterious person, who Nathanael assumes is the title figure from folklore.

ANSWER: "The **Sandman**" [or "Der **Sandman**"]

[10] "The Sandman" was written by this Prussian Romantic author who wrote *The Nutcracker and the Mouse King*. His "tales" are depicted in an opera by Jacques Offenbach.

ANSWER: E. T. A. **Hoffmann** [or Ernst **Hoffmann**; accept *The Tales of Hoffmann*]

[10] In "The Sandman," Nathanael fears that these physical features of his will be stolen. In "Little Red Riding Hood," the wolf says "the better to see you with" when asked about the size of these features.

ANSWER: **eyes**

<European Literature>

8. The wavelengths in this series are given by the Rydberg formula when m equals 2. For 10 points each:

[10] Name this series of spectral emission lines that arises from excited states of hydrogen transitioning to the n equals 2 state, contrasted with the Lyman series.

ANSWER: **Balmer** series

[10] The first 4 emission lines in the Balmer series are in the visible light spectrum. After that, their wavelengths become shorter than 400 nanometers, and they enter this spectrum.

ANSWER: **ultraviolet** spectrum [or **UV**]

[10] The Rydberg formula can be generalized to any atom with only one electron by multiplying the square of this quantity. This quantity, represented by a capital Z , is 1 for hydrogen.

ANSWER: **atomic number** [or **proton number**; or the **number** of **protons**; or synonyms]

<Physics>

9. This pioneer of surrealist photography depicted a baby armadillo in *Père Ubu* ("pair oo-boo"). For 10 points each:

[10] Name this French artist who used photomontage techniques to create photographs of a pair of legs being held over a bridge and of a human hand coming out of a conch shell. She modeled for *Weeping Woman*, a painting by her lover Pablo Picasso.

ANSWER: Dora **Maar** [or Henriette Theodora **Markovitch**]

[10] Maar captured a series of photographs that depicted Picasso's creation of this 1937 painting, which abstractly portrays the bombing of a namesake town during the Spanish Civil War.

ANSWER: **Guernica** ("gair-NEE-kuh")

[10] Dora Maar was famously photographed by Man Ray, who also photographed this other Dadaist dressed as his female alter ego, Rrose Sélavy. This artist drew a mustache on the Mona Lisa for his work *L.H.O.O.Q.* ("L-ahsh-O-O-koo").

ANSWER: Marcel **Duchamp** ("doo-SHAHMP")

<Other Arts>

10. This man published his ideas in the journal *Thought and Action* and wrote the essay *Duties of Man*. For 10 points each:

[10] Name this founder of the Young Europe association, which grew out of a similar movement that this man formed to fight for the unification of his home country.

ANSWER: Giuseppe **Mazzini** (“joo-SEP-ee maht-SEE-nee”)

[10] Mazzini was one of the leaders of the Risorgimento (“ree-ZOR-jih-MEN-toh”), the process of unifying this country. It was ultimately unified under Victor Emmanuel II with help from Giuseppe Garibaldi.

ANSWER: **Italy** [accept Kingdom of **Italy**; accept the **Italian** Republic]

[10] This politician called Mazzini the “chief of the assassins.” This adviser to Victor Emmanuel II served as the first Prime Minister of a unified Italy.

ANSWER: Count of **Cavour** [or Camillo Paolo Filippo Giulio **Benso**]

<European History>

11. In Ireland, objects used to perform this ritual were often designed to be easily hidden in a palm or sleeve. For 10 points each:

[10] Name this ritual whose prayers are arranged in sets of 10 called decades. During recitations of each decade, participants meditate on one of its namesake mysteries.

ANSWER: saying the **Rosary** [or the Holy **Rosary**; or Dominican **Rosary**; accept descriptive equivalents]

[10] The Rosary venerates this figure through prayers such as the *Salve Regina* (“SAHL-vay ray-JEE-nah”) and *Loreto Litany*. The special veneration of this mother of Christ in the Catholic Church is called *hyperdulia*.

ANSWER: the Virgin **Mary** [do not accept or prompt on “Mary Magdalene”]

[10] A Marian (“MARY-in”) apparition appeared to three children in this Portuguese town in May 1917, asking the children to pray the Rosary every day to end World War I.

ANSWER: **Fátima** [or Our Lady of the Holy Rosary of **Fatima** or Nossa Senhora do Rosário de **Fátima**]

<Religion>

12. This philosopher explored the distinction between the public and the private in essays like “Concealment and Exposure.” For 10 points each:

[10] Name this philosopher who argued against reductionist accounts of consciousness in the essay “What Is It Like to Be a Bat?”

ANSWER: Thomas **Nagel**

[10] The unrelated philosopher Ernest Nagel wrote about the importance of “bridge laws” in this discipline, which proceeds via a namesake method involving making observations and formulating hypotheses.

ANSWER: **science** [accept **scientific** method]

[10] The philosopher Jennifer Nagel wrote a “very short introduction” to this concept. Robert Nozick’s “truth tracking theory” gives four conditions that are required for this concept to be present.

ANSWER: **knowledge** [or **knowing**]

<Philosophy/Social Science>

13. This kingdom collapsed after a defeat by the French at the Battle of Poguessa. For 10 points each:

[10] Name this African kingdom that ruled over the Fon people and was a leading supplier of slaves to European empires. It was located in present day Benin.

ANSWER: Kingdom of **Dahomey** (“duh-HO-mee”)

[10] The Kingdom of Dahomey was served by these female warriors. They were named after similar female warriors from Greek mythology, some of whom fought in the Trojan War.

ANSWER: Dahomey **Amazons** [accept **Mino**; accept **Minon**]

[10] The Kingdom of Dahomey was subjugated by the nearby Oyo Empire, made up of people of this ethnicity. Tensions between these people, the Hausa (“HOUSE-uh”), and the Ibo (“EE-boh”) led to the Nigerian Civil War.

ANSWER: **Yoruba** (“YOR-uh-buh”)

<World History>

14. This character is referred to as “the jackal” due to his subservience to his legal partner Mr. Stryver, who is described as a “lion.” For 10 points each:

[10] Name this character who says “It is a far, far better thing that I do, than I have ever done” as he awaits death.

ANSWER: **Sydney Carton** [accept either underlined part]

[10] Sydney Carton is executed in place of his lookalike Charles Darnay, a nobleman, at the end of this 1859 novel.

ANSWER: *A **Tale of Two Cities***

[10] *A Tale of Two Cities* and *Barnaby Rudge* are the only works of historical fiction by this author, who also wrote *Great Expectations*.

ANSWER: Charles **Dickens**

<British Literature>

15. This technique produces a sigmoidal (“sig-MOY-dul”) curve whose inflection point signifies the equivalence point of the reaction. For 10 points each:

[10] Name this technique in which a known reagent is slowly added to an unknown solution to determine its concentration.

ANSWER: **titration**

[10] Acid-base titrations rely on pH indicators like this dye, which turns colorless in acidic solutions and pink in basic solutions.

ANSWER: **phenolphthalein** (“fee-nawl-THAL-eeen”) [or **HIn** or **phph**]

[10] Titrations utilize this equation to determine the pKa of the unknown solution. At a titration’s half-equivalence point, this equation states that pH equals pKa because the concentrations of acid and conjugate base are equal.

ANSWER: **Henderson–Hasselbalch** equation

<Chemistry>

16. A painting by this artist focuses on some men and their dogs in a wintry landscape overlooking ice skaters. For 10 points each:

[10] Name this Northern Renaissance painter of *The Hunters in the Snow*. He also painted a landscape where the title mythological character can only be seen as some legs disappearing under the water.

ANSWER: Pieter **Bruegel** (“BROY-gul”) the Elder

[10] *The Hunters in the Snow* is part of a series of paintings representing these things, which also includes works like *The Harvesters* and *The Gloomy Day*. The Limbourg brothers depicted the “Labors of” these things at the start of the *Très Riches Heures (“tray reesh urr”) du Duc de Berry*.

ANSWER: **months** of the year [accept *Labors of the Months*]

[10] Another Bruegel painting depicts a *Peasant* event of this type, in which two men use a door as a tray to pass food around a celebratory crowd. Jan van Eyck’s *Arnolfini Portrait* depicts, and is sometimes named for, this type of event.

ANSWER: **weddings** [or **marriages**]

<Painting/Sculpture>

17. Ancient Egypt was home to the oldest-known example of one of these items, called Senet. For 10 points each:

[10] Identify these items common in the ancient world. An Indian one of these items known as chaturanga inspired modern variants such as the Chinese xiangqi (“sh’yong-chee”).

ANSWER: **board games** [prompt on tabletop **games**]

[10] Leonard Woolley discovered a “royal” board game in this ancient Sumerian city. This city, which was led by Shulgi during the Sumerian Renaissance, was the site of a Great Ziggurat.

ANSWER: **Ur** [do not accept or prompt on “Uruk”]

[10] Board games similar to the Royal Game of Ur were found in the tomb of this pharaoh, which was discovered by Howard Carter. This short-reigning pharaoh restored Egyptian polytheism after succeeding his father, Akhenaten (“AH-ken-AH-tun”).

ANSWER: **Tutankhamun** [or **Tutankhaten**; or King **Tut**]

<Other History>

18. This author wrote a letter to a literary critic, asking “Mr Higginson, are you too deeply occupied to say if my Verse is alive?” For 10 points each:

[10] Name this poet later mentored by Thomas Wentworth Higginson. A poem by this author describes passing “a House that seemed / A Swelling of the Ground,” while another uses many dashes to describe the “Blue – uncertain – stumbling Buzz –” of the title creature.

ANSWER: Emily **Dickinson**

[10] Dickinson imagines Hope as “the thing with feathers” and describes it perching in this thing and singing.

Another Dickinson poem describes how this thing “selects her own Society.”

ANSWER: the **soul**

[10] Another abstract concept made concrete by Dickinson is this concept. One of Dickinson’s poems describes this concept “kindly stopping for me” in a poem that begins “Because I could not stop for” this concept.

ANSWER: **Death**

<American Literature>

19. Charles Darwin wrote that “The sight of a feather in [the tail of this animal], whenever I gaze at it, makes me sick!” For 10 points each:

[10] Identify this sexually dimorphic bird whose extravagant blue-green plumage contains eye-shaped rings. One explanation for this bird’s plumage is the handicap theory, which suggests that it represents the bird’s fitness.

ANSWER: **peacock** [or **peafowl**; accept *Pavo cristatus* or *Pavo muticus* or *Afropavo congensis* or any specific type of **peacock** or **peafowl**; do not accept or prompt on “peahen”]

[10] In an example of this phenomenon, peahens preferentially mate with peafowls with flashier tails. This phenomenon occurs when members of one sex compete with each other for mating privileges with the other sex.

ANSWER: **sexual selection** [prompt on **selection**]

[10] Peacock tails exemplify this phenomenon, in which sexual selection leads to exaggerated male ornamentation even though it decreases the species’ absolute fitness. This phenomenon is named for a British biologist and statistician.

ANSWER: **Fisherian runaway** [or **runaway selection**; prompt on Ronald **Fisher**]

<Biology>

20. After challenging this leader’s bid for a sixth term as president, Sviatlana Tsikhanouskaya (“svet-LAH-nah tsih-ka-NO-skuh-yuh”) fled to Lithuania. For 10 points each:

[10] Name this authoritarian leader whose security forces have clashed with protesters since he claimed victory in a disputed August 2020 election.

ANSWER: Alexander **Lukashenko** (“loo-kuh-SHEN-ko”) [or Alexander **Lukashenka**]

[10] Lukashenko rules this eastern European country from Minsk.

ANSWER: **Belarus**

[10] Tsikhanouskaya’s husband Sergei was jailed after comparing Lukashenko to one of these animals in a Russian children’s story. Some have branded the protests as the Anti-[this animal] Revolution.

ANSWER: **cockroach** [accept *The Monster Cockroach* or the Anti-**Cockroach** Revolution]

<Current Events/Geography/Other Academic/Pop Culture>