

## Regular Academic Fall Tournament III

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### Packet 13

1T. **Components in this technique are classified as “heavy key” and “light key” depending on how easily they undergo a certain process. The Kugelrohr is used to perform this technique’s “short path” form. Chips can be used in this procedure as nucleation points to avoid bumping. A Perkin triangle apparatus is sometimes used in the vacuum type of this technique. A mixture of 96% (\*) ethanol and 4% water cannot be analyzed using this technique due to it being an azeotrope. Chemical plants often use this technique’s “fractional” type to refine crude oil. For 10 points, name this technique that separates a mixture of liquids based on their boiling points.**

ANSWER: **distillation** [accept short path **distillation** or vacuum **distillation** or fractional **distillation**]

<Tran — Chemistry>

1B. Milton Friedman taught the “Chicago Boys,” who advised this leader on his economic policies. For 10 points each:

[M] Name this leader whose regime oversaw the “Caravan of Death.” This leader deposed Chilean president Salvador Allende in a coup in 1973.

ANSWER: Augusto (José Ramón) **Pinochet** (Ugarte)

[E] That coup was supported by this American organization, responsible for conducting espionage. Unlike the FBI, this organization primarily operates in foreign nations.

ANSWER: **CIA** [or **C**entral **I**ntelligence **A**gency]

[H] Pinochet ordered the assassination of former Commander-In-Chief of the Chilean Army Carlos Prats in this manner. Pinochet also had Orlando Letelier assassinated at Sheridan Circle in Washington D.C. in this manner. A description is acceptable.

ANSWER: **car bomb** [accept answers indicating that a **car** has **blown up**; prompt on **bombing**]

<Gedajlovic — World History>

2T. **After an army following this religion failed to besiege Dongola, the kingdom of Makuria and that army signed the Baqt, a commercial treaty that lasted six centuries. The Swahili culture arose from the interaction between Bantu peoples and merchants of this religion. Askia the Great expanded the Sankore (\*) Madrasa in order to promote this religion within the Songhai Empire. A ruler who followed this religion devalued the price of gold in Cairo as he made a holy pilgrimage; that ruler of the Mali Empire was Mansa Musa. For 10 points, name this religion spread throughout Africa by merchants who preached the word of Muhammad.**

ANSWER: **Islam**

<Sarma — World History>

2B. For 10 points each, answer the following about the musical Gottschalk family:

[E] In the 1910s and 1920s, Louis Ferdinand Gottschalk composed music and scores for several films named for this place. In a later film titled for the “Wizard of” the place, a Judy Garland-played Dorothy sings “We’re Off To See the Wizard” as she travels the Yellow Brick Road with Tin Man, Scarecrow, the Cowardly Lion, and Toto.

ANSWER: **Oz** [accept *The Wizard of Oz*]

[M] In the introduction to her *Creole Songs*, Clara Gottschalk Peterson cited this European composer, who was influenced by Native American music and spirituals to compose pieces like his “American” String Quartet.

ANSWER: Antonín Leopold **Dvořák** [dvor-ZHOCK] [accept phonetic pronunciations]

[H] Louis Moreau Gottschalk based his 1857 composition *Souvenir de* [this island] on its jíbaro [HE-bah-roh] folk music. It’s not in Spain, but the mother of cellist Pablo Casals is from this island, as is the “Father of Danza,” Juan Morel Campos.

ANSWER: Commonwealth of **Puerto Rico** [or **Boriken**; accept *Souvenir de Porto Rico*]

<Delot-Vilain — Auditory Fine Arts>

3T. **Donatello’s first major artwork was a marble sculpture of this person. The Operai commissioned another sculpture of this person that was intended for the Florence Cathedral. Agostino and Antonio Rossellino unsuccessfully attempted to create that sculpture of this person out of a single block of Carrara marble. This person wears a helmet and stands (\*) holding a sword above a severed head in another bronze statue. A 17-foot-tall marble sculpture of this character shows him holding a sling over his shoulder as he prepares to fight a giant. For 10 points, name this Biblical character sculpted in bronze by Donatello and in marble by Michelangelo, the killer of Goliath.**

ANSWER: **David**

<Rao / Morales — Visual Fine Arts>

3B. Philip Larkin’s poem “Annus Mirabilis” references this novel with the line “Sexual intercourse began / In nineteen sixty-three...Between the end of [this novel’s] ban / And the Beatles' first LP.” For 10 points each:

[M] Name this novel by D.H. Lawrence about the title character’s affair, which faced an obscenity trial in 1959.

ANSWER: ***Lady Chatterley’s Lover***

[E] Lady Chatterley’s husband Clifford was injured during this war, which is referred to as the “Great War” throughout the novel.

ANSWER: **World War I** [accept **WWI** or **First World War**]

[H] Lawrence was allegedly inspired by this novel while writing *Lady Chatterley’s Lover*. In this E.M. Forster novel, the title character visits the hypnotist Lasker Jones in order to “cure” his homosexuality before beginning an affair with Alec Scudder.

ANSWER: ***Maurice***

<Ezriev — British Literature>

4T. **This figure owns a ring that dispels magic and illusions, which allows him to cross a bridge guarded by two lions. This figure’s cousins Lionel and Bors were spirited away to live with him after their father’s death. In one story, after Meleagant kidnaps this man’s love interest, this man demeans himself by riding in a cart. This man learned his true name after capturing his castle, (\*) Joyous Guard. This man retires as a hermit after his king is killed at the Battle of Camlann. Elaine tricked this man into fathering Galahad, who later became a Knight of the Round Table alongside this man. For 10 points, knight who had an affair with King Arthur’s wife Guinevere.**

ANSWER: Sir **Lancelot** du Lac

<An — Mythology>

4B. For 10 points each, answer the following about superacids:

[M] Superacids are defined by their ability to deprotonate this compound, which has a pKa of negative 2.8. The contact process is used to industrially produce this compound.

ANSWER: **sulfuric acid** [or **H<sub>2</sub>SO<sub>4</sub>** [H-two-S-O-four]]

[E] Like all acids, superacids have a value of less than 7 for this quantity. This quantity is defined as the negative logarithm of the concentration of protons in a solution.

ANSWER: **pH** [accept **power of hydrogen** or **potential of hydrogen**]

[H] A mixture containing this element’s pentafluoride and hydrofluoric acid forms one of the strongest superacids. Another superacid is another superacid that contains this metalloid in a complex containing fluorosulfuric acid.

ANSWER: **antimony** [or **Sb**]

<Tran — Chemistry>

5T. In a novel by this author, three stories reimagine the alternate lives of the protagonist as a rainmaker, a hermit, and the usurped Prince Dasa. The title character of a novel by this author becomes addicted to dice while working as a merchant and falls in love with a courtesan who later dies of a snakebite. The protagonist of a novel by this author studies at Waldzell in Castalia to become (\*) Magister Ludi of the title game. In another novel by this author, the title character becomes the disciple of the ferryman Vasudeva after traveling with his friend Govinda to hear a sermon given by the Buddha. For 10 points, name this German author of *The Glass Bead Game* and *Siddhartha*.

ANSWER: Hermann **Hesse**

<R. Wang — European Literature>

5B. The words “Hear this, you kings! Listen, you rulers!” were a part of this woman’s “song”. For 10 points each:

[M] Name this Biblical woman who performed her job under a palm tree. She worked with Barak to defeat the Canaanites in battle.

ANSWER: **Deborah**

[E] Deborah was the fourth and only female one of these people. These people who preside over legal proceedings name a biblical book featuring Samson.

ANSWER: **Judges** [accept Book of **Judges**]

[H] Deborah and Barak teamed up to defeat this Canaanite general. This man was finally killed when Jael hammered a tent peg into his head.

ANSWER: **Sisera**

<Morales — Religion>

6T. This leader’s nose has been broken off in the “Vatican” depiction of this leader, but not in the very similar “Berlin” depiction. With one of their lovers, this leader created the “Society of Inimitable Livers,” which was essentially an excuse to eat and drink to excess. A tomb allegedly holding this figure’s murdered sister (\*) Arsinoe IV is found near the Temple of Artemis at Ephesus. For a brief time, this figure ruled jointly with their son Caesarion. After a defeat at the battle of Actium, this figure legendarily committed suicide via asp bite. For 10 points, name this queen of Egypt, the lover of Julius Caesar and Mark Antony.

ANSWER: **Cleopatra** VII Philopator

<Wang — Other History>

6B. A crystal merchant in this work never fulfills his dream of journeying to Mecca. For 10 points each:

[H] Name this work by Paulo Coelho in which Santiago, an Andalusian shepherd, travels in search of his personal treasure.

ANSWER: *The **Alchemist*** [or *O **Alquimista***]

[E] Santiago receives two of these objects named Urim and Thummim, which symbolize “yes” and “no.” The Englishman he encounters seeks to turn lead into gold by using the Philosopher’s one of these objects.

ANSWER: **stones** [accept **rocks**]

[M] Santiago eventually reaches this country, where he digs under the light of the moon for his treasure. Naguib Mahfouz, an author from this country, wrote *The Thief and the Dogs* and *Palace Walk*.

ANSWER: **Egypt** [or Arab Republic of **Egypt** or Jumhuriyat **Misr** al-Arabiyah]

<Yu — World Literature>

7T. This scientist names a constant that is equal to the time derivative of the scale factor divided by the scale factor. A law named for this scientist was used to resolve Olbers’s paradox. This scientist devised a diagram that branches at objects labeled S-zero. This scientist used Henrietta Swan Leavitt’s discovery of the period-luminosity relationship to reclassify (\*) “nebulae” as other galaxies. The redshift of a galaxy is proportional to its distance by a parameter named for this scientist, which this scientist used to show that the universe was expanding. For 10 points, name this American astronomer whose namesake telescope launched in 1990.

ANSWER: Edwin (Powell) **Hubble** [accept **Hubble**’s law or **Hubble**’s constant]

<Rao — Other Science>

7B. A gang called the “forty thieves” came to be associated with this organization in the 1850s. For 10 points each:

[M] Name this organization that acted as a Democratic Party political machine. The leaders of this organization were known as sachems and included Charles Murphy and William “Boss” Tweed.

ANSWER: **Tammany** Hall [accept **Tammany** Society or Society of St. **Tammany** or Sons of St. **Tammany** or **Columbian** Order]

[E] Tammany Hall operated in this city, where it was largely led by and made up of Irish Catholic immigrants. It was headquartered in this city’s borough of Manhattan.

ANSWER: **New York** City [or **NYC**; accept the **Big Apple**]

[H] Tammany Hall’s influence in New York City mayoral elections largely ended with the election of this politician on a Fusion ticket. While in the House, this politician sponsored an act he co-names with George Norris that outlawed so-called “yellow dog contracts.”

ANSWER: Fiorello (Henry) **La Guardia** [GWAR-dee-yah]

<Rao — American History>

8T. **On a remix of a song whose title references this place, Blackbear sang a verse that included his actual phone number. An artist whose last name is this word asks “what’s a god to a non-believer?” on the hook of Kanye West’s “No Church in the Wild.” This is the last word in the title of the best-known song by Joe Jonas’s band DNCE. The singer laments “you really know how to make me cry” on (\*) Billie Eilish’s breakout single, which is titled for “[this word] eyes.” Masked Wolf asks “what you know about rolling down in the deep?” in a song titled for an “Astronaut in [this place].”** For 10 points, give this last name of the singer who released the album *Blond*.

ANSWER: **ocean** [accept Frank **Ocean** or “**Ocean** Eyes” or “Cake by the **Ocean**” or “Astronaut in the **Ocean**”]

<Tran — Pop Culture>

8B. Malpighian tubules serve similar functions in arthropods as this organ in the human body. For 10 points each:

[E] Name this bean-shaped organ responsible for removing nitrogenous waste from the body by filtering blood to produce urine.

ANSWER: **kidney**

[M] This structure utilizes countercurrent multiplication to generate an osmotic gradient in its Loop of Henle [hen-NULL] to produce concentrated urine. This structure serves as the functional unit of the kidney and consists of a tubule and glomerulus.

ANSWER: **nephrons**

[H] This hormone triggers a temporary increase of aquaporins in the membrane of the collecting duct cells of the nephron. This hormone is secreted by the posterior pituitary glands and increases water retention in the kidneys.

ANSWER: **vasopressin** [or **antidiuretic** hormone or **ADH** or arginine **vasopressin** or **AVP** or **argipressin**]

<Chen — Biology>

9T. **In the opening scene of this play, one character recounts Brownie trying to hide a watermelon from his boss Mr. Rand. The protagonist of this play frequently converses with Bono, who warns him against an affair. In this play, one character brings his daughter Raynell home after his mistress Alberta dies in childbirth. This play ends with a war veteran unsuccessfully blowing his (\*) trumpet while trying to open the gates of heaven. The protagonist of this play prevents his son Cory from playing football due to his failed baseball career, and is promoted to become Pittsburgh’s first black garbage truck driver.** For 10 points, name this play centering on Troy Maxson, by August Wilson.

ANSWER: **Fences**

9B. Jacob Frey [FRY] won re-election as this city’s mayor in November 2021. For 10 points each:

[H] Name this upper Midwestern city. Frey first became the mayor of this city after defeating incumbent and fellow Democratic-Farmer-Labor party member Betsy Hodges in 2017.

ANSWER: **Minneapolis**

[M] Minneapolis implemented this electoral system for its 2021 mayoral election, in which voters order candidates by preference.

New York City used this voting system in its mayoral primaries, which led to Eric Adams winning the Democratic nomination over Kathryn Garcia in the eighth round of runoffs.

ANSWER: **ranked choice** voting [or **RCV**]

[E] The second of three questions that were also up for vote in Minneapolis was about whether this group should be replaced with a Department of Public Safety. A popular slogan in the aftermath of the murder of George Floyd called to “defund [this group].”

ANSWER: **police** [or Minneapolis **Police** Department; accept equivalents for **police**]

<Rao — Current Events>

10T. Joe Oliver's blues piece "West End Blues" was popularized by one player of this instrument. One player of this instrument collaborated with Max Roach, Bud Powell, Charlie Parker, and Charles Mingus on the album *Jazz at Massey Hall*. Earl Hines collaborated with that musician on the duet "Weather Bird." Arturo Sandoval, a player of this instrument, was mentored by a musician who was often seen playing a (\*) bent one with puffed cheeks. One musician who played this instrument made a famous recording of "What a Wonderful World" and pioneered scat singing with his gravelly voice. For 10 points, name this brass instrument played by Dizzy Gillespie and Louis Armstrong.

ANSWER: trumpets

<Morales — Other Fine Arts>

10B. This character and her daughter are visited in jail by her husband Roger Chillingworth, who pretends to be a physician. For 10 points each:

[M] Name this character who is publicly humiliated and ostracized after being forced to sew the title symbol of the novel she appears in into all of her clothes.

ANSWER: Hester Prynne [accept either underlined portion]

[E] Hester Prynne has a daughter, Pearl, after an affair with Arthur Dimmesdale in this novel. The title symbol, an 'A,' is meant to symbolize that adultery in this Nathaniel Hawthorne novel.

ANSWER: *The Scarlet Letter*

[H] In *The Scarlet Letter*, one of these objects forms the letter A in the sky, leading many of the townspeople to perceive it as a sign of the recently deceased Governor Bellingham's ascension.

ANSWER: meteor

<Morales — American Literature>

11T. These structures are penetrated by Hartig nets and secrete mucigel. One complex formed on these structures could be classified as ericoid or arbuscular. Leghemoglobin is found in one complex formed on these structures. These structures include their aerial variety and pneumatophores, both of which are found in mangroves. In grasses, a (\*) coleorhiza protects the embryonic form of these structures, known as the radicle, which eventually forms fiber-like networks in monocots. These plant structures form symbiotic relationships with mycorrhizae and nitrogen-fixing bacteria. For 10 points, name these structures that absorb water and nutrients from the soil.

ANSWER: roots

<Xie — Biology>

11B. In an essay that discusses "The Uses of [this emotion]," the author describes this emotion as her response to racism. For 10 points each:

[M] Name this emotion which is applied to Black women in a racist stereotype. In "We Should All Be Feminists," Chimamanda Ngozie Adichie stated that this emotion "has a long history of bringing about positive change."

ANSWER: anger [accept "The Uses of Anger"]

[H] This Black lesbian author adapted "The Uses of Anger" from a speech she gave at the National Women's Studies Association Conference. She also wrote *Zami: A New Spelling of My Name* and *Sister Outsider*.

ANSWER: Audre Lorde

[E] This person was controversially penalized for her behavior after losing the 2018 U.S. Open Final. Many pointed out the double standards that decried this tennis player as an "angry Black woman," while men who display similar behavior are not penalized.

ANSWER: Serena (Jameka) Williams

<C. Shao — Other Academic>

12T. A magnate in this industry was forced to abandon a project after a stock-fixing scheme was perpetrated by Daniel Drew. Schuyler Colfax and Oakes Ames were implicated in a scandal in which a fraudulent company exaggerated the costs of a project in this industry. The Credit (\*) Mobilier scandal in this industry occurred under president Ulysses S. Grant. Eugene Debs led the Pullman strike, which protested low wages for workers in this industry. Promontory, Utah saw the linking of two projects in this industry, which were constructed by the Central Pacific and Union Pacific companies. For 10 points, name this industry whose "transcontinental" project linked San Francisco and Omaha.

ANSWER: railroad [accept transcontinental railroad]

<Gedajlovic — American History>

12B. The “side-angle-side” formula is one method of determining the area of these shapes. For 10 points each:

[E] Name these three-sided polygons. Heron’s formula is another common method in computing the areas of these shapes, which is traditionally given as one-half base times height.

ANSWER: **triangles**

[M] In Heron’s formula, the three lengths of the legs are subtracted from this quantity, all multiplied together with this quantity, and then applied a square root to determine the area.

ANSWER: **semiperimeter** [accept descriptions of **half** the **perimeter**; do not accept or prompt on “perimeter” alone]

[H] Another formula for finding the area of a triangle multiplies the semiperimeter by this point. This point is determined by the intersection of the angle bisectors of the triangle.

ANSWER: **incenter** [prompt on **center**]

<Morales — Other Science>

13T. **Herbert Kelman split this phenomenon into internalization, compliance, and identification. In his essay on “Nationality and [this phenomenon],” Stanley Milgram asserted that it occurred more in Norway than France. Muzafer Sherif studied this phenomenon by using the autokinetic effect, having participants in a darkened room observe a point of light on a screen. One experiment studying this phenomenon saw confederates give obviously wrong answers about the lengths of (\*) lines.** That experiment was conducted by Solomon Asch. For 10 points, name this phenomenon in which individuals tend to change behavior or belief due to outside pressure.

ANSWER: **conformity**

<Morales — Social Science>

13B. Anna Walentynowicz co-founded this organization after being fired from her job. For 10 points each:

[H] Name this organization, which enacted economic reforms known as “shock therapy” after successfully electing Lech Wałęsa [lek VUH-leh-suh] to its country’s presidency.

ANSWER: **Solidarity** [or **Solidarność**; accept but do NOT reveal Independent Self-Governing Trade Union **Solidarity**]

[M] Walentynowicz was a longtime correspondent of this world leader. This leader’s visit to his home country of Poland in 1979 inspired the formation of Solidarity among workers at the Lenin Shipyards in Gdansk.

ANSWER: Pope **John Paul II** [accept **JPII**; accept Karol Józef **Wojtyła** [woj]; prompt on **John Paul**]

[E] Solidarity was one of these organizations that, at its peak, counted 10 million workers among its members. The Teamsters and the AFL-CIO are examples of these organizations, which enable and facilitate collective bargaining.

ANSWER: trade **unions**

<Delot-Vilain — European History>

14T. **At the end of this novel, a character appears as “a white-topped cap” with “a crown, an anchor, gold foliage.” A character in this novel asserts that he should be chosen as the leader of one group because he’s the head of the choir and can sing a C sharp. In this novel, one group abandons a smoke signal because of the appearance of “the beast,” which (\*) Simon discovers is actually a fallen parachutist after talking to this novel’s title character, a rotting pig’s head.** At the beginning of this novel, Ralph uses a conch shell to assemble a group that includes Jack and Piggy. For 10 points, name this novel by William Golding about a group of boys stranded on an island.

ANSWER: **Lord of the Flies**

<Carvell — British Literature>

14B. The bodegón is a Spanish variant of this genre of art which focuses on foodstuffs and kitchen scenes. For 10 points each:

[E] Name this art genre which depicts inanimate subjects. Paintings in this genre often include fruit, flowers, or dead animals.

ANSWER: **still lifes**

[M] This artist painted many bodegones, including his *Old Woman Frying Eggs* and *The Waterseller of Seville*. This artist also painted a military victory of Ambrogio Spinola in *The Surrender of Breda*.

ANSWER: Diego **Velázquez** [or Diego Rodríguez de Silva y **Velázquez**]

[H] Many of the still lifes of this artist of *Pyramid of Skulls* contained apples specifically. This artist’s Post-Impressionist *Mont Sainte-Victoire* series was a major influence on the Cubism movement.

ANSWER: Paul **Cézanne** [say-ZAHN]

<Yu — Visual Fine Arts>

15T. **This country created the *de jure* office of Alternate Prime Minister in order to form its two most recent governments. The current government of this country includes the Ra'am party for the first time. A former leader of this country was charged with bribery for dealings with the communications company Bezeq. This country signed the (\*) Abraham Accords with the United Arab Emirates and Bahrain in 2020, agreements which were brokered in part by Jared Kushner. In June 2021, Naftali Bennett and Yair Lapid reached an agreement to unseat this country's previous prime minister, Benjamin Netanyahu. For 10 points, name this Jewish-majority country in the Middle East.**

ANSWER: State of **Israel** [or Medinat **Yisra'el**]

<Rao — Current Events>

15B. For 10 points each, answer the following about civilizations that relied on horse archers:

[E] This nomadic group extensively used horse archery while invading Europe in the 4th and 5th centuries CE and nearly sacked Rome under their leader Attila.

ANSWER: **Huns** [accept specific groups of Huns]

[M] Retreating horse archers would turn around to shoot arrows at the enemy in a "shot" named for this empire. This Persian empire between that of the Seleucids and the Sassanids used horse archers in their defeat of Crassus at the Battle of Carrhae.

ANSWER: **Parthian** Empire [accept **Arsacid** dynasty or empire; accept **Parthian** shot]

[H] The Texas Rangers adopted the Colt Walker revolver to fight this Native American tribe on horseback, since dismounting to fire rifles was ineffective against this tribe's horse archery. This tribe was led by Quanah Parker until their defeat in the Red River War.

ANSWER: **Comanches** [or **Nermernuh**]

<Sarma — Other History>

16T. **Proverbs 20:1 calls this substance a "mocker" and a related substance a "brawler." The last section of the Anaphora of St. John Chrysostom involves this substance. Immediately after exiting the Ark, Moses plants a field and then consumes this substance. Lot's daughters have sex with him after getting him to (\*) consume this substance. One Biblical figure performs a miracle at a wedding at Cana that creates this substance. In Communion, this substance represents the blood of Jesus, and Jesus's first miracle involved turning water into this liquid. For 10 points, name this alcoholic drink made from grapes.**

ANSWER: **wine** [prompt on grape juice or alcohol]

<Rao — Religion>

16B. A red-feathered bird called a Loftwing is used to travel around a large open region in one game from this franchise. For 10 points each:

[E] Name this franchise. This franchise's timeline splits into three parts in *Ocarina of Time*, in which this franchise's central character, Link, uses the title instrument to travel 7 years into the future.

ANSWER: The Legend of **Zelda**

[H] In this game, which is chronologically first in the franchise, the player is assisted by Fi, who resides inside the title object. A remastered version of this game was released for Nintendo Switch in July 2021.

ANSWER: The Legend of Zelda: **Skyward Sword** [accept The Legend of Zelda: **Skyward Sword** HD]

[M] The three timelines of the Legend of Zelda split based on whether or not Link defeats this evil king of the Gerudo, the central antagonist of the Zelda franchise. In another incarnation, he appears in a "Calamity" form.

ANSWER: **Ganondorf** [or **Ganon**]

<Ye — Pop Culture>

17T. **The partial derivative of the Hamiltonian with respect to this quantity is equal to the time derivative of the generalized coordinate. In the ultrarelativistic limit, the energy of a particle is proportional to this quantity for the particle. This quantity and energy are combined into a four-vector used in special relativity. The change in this quantity is called (\*) impulse. One form of Newton's second law of motion sets force equal to the time derivative of this quantity. Unlike kinetic energy, this quantity is conserved in both elastic and inelastic collisions. For 10 points, identify this quantity, which for an object in motion is classically equal to mass times velocity.**

ANSWER: linear **momentum** [do not accept or prompt on "angular momentum"]

<Tran — Physics>

17B. In Stendhal's most famous novel, Julien Sorel models his ambition off of this real-life figure. For 10 points each:

[E] Name this historical figure. In another novel, Fabrice del Dongo leaves Lake Como to join this general's army and participates in the Battle of Waterloo, the final defeat for this man before his exile to St. Helena.

ANSWER: **Napoléon Bonaparte** [or **Napoleon I**; or **Napoleone di Buonaparte**; accept any underlined portion]

[M] The aforementioned Stendhal novel pairs this color with black. In Baroness Orczy's novel titled for a pimpernel of this color, the villainous Citizen Chauvelin was inspired by the Marquis de Chavelin, who served under Napoleon.

ANSWER: **red** [accept *The **Red** and the Black* or *The **Scarlet Pimpernel***]

[H] In this Stendhal novel, Contessa Gina Pietranera and Conte Mosca attempt to rehabilitate Fabrice after he joins Napoleon's army. After the death of his child with Clélia Conti, Fabrice retires to the title monastery of this novel.

ANSWER: *The **Charterhouse of Parma*** [or *La **Chartreuse de Parme***]

<Kulkarni — European Literature>

18T. A seminal minimalist composition that calls for "a group of about 35" performers is named for being "In [this key]" and is by Terry Riley. A piece in this key opens with a broken chord consisting of the ascending notes E, G, C, E and modulates repetitively. Chopin used this key for the first of his Opus 10 études, nicknamed the Waterfall étude. Chopin also used this key for his first (\*) prelude, influenced by Bach, whose first prelude in the Well-Tempered Clavier is in this key. A minor is the relative minor of this note's major key. For 10 points, name this key, whose major scale has no sharps or flats.

ANSWER: **C** major [accept *In **C***; accept *Prelude in **C***; do NOT accept or prompt on **C** minor]

<Delot-Vilain — Auditory Fine Arts>

18B. Evidence for this theory came from observing the precession of the perihelion of Mercury. For 10 points each:

[E] Name this theory postulated by Albert Einstein in 1915. This theory expanded on a previously established "special" form by accounting for the effects of gravity.

ANSWER: **general relativity** [or **general** theory of **relativity**; accept **GR**; prompt on theory of **relativity**]

[M] General relativity is described by the Einstein field equations, which contain tensors named for this property. This property describes how much a surface deviates from flatness and is nonzero near objects with mass.

ANSWER: **curvature** [or **curvature** of spacetime]

[H] The original formulation of the Einstein field equations contains this parameter, which Einstein called his "greatest blunder". This parameter was later used to represent the effect of dark energy in models of the universe.

ANSWER: **cosmological constant** [prompt on **lambda**]

<Ye — Physics>

19T. The Works Progress Administration shut down a staging of a play by this author on account of its all black cast. A character in a work by this playwright uses the metaphor of cleansing wool in order to clothe an entire city. A group of women seize control of a temple in that play while also withholding (\*) sex from their husbands. In another play by this author, a character displays his knowledge of cheating debtors before shortly thereafter beating his father. That father later burns down a "thinkery" led by a mock depiction of Socrates. For 10 points, name this Greek comic playwright of *The Clouds* and *Lysistrata*.

ANSWER: **Aristophanes**

<F. Wang — Other Literature>

19B. Obatala is the father of all spirits in this myth system. For 10 points each:

[M] Name this West African myth system that reveres patron gods called *orishas*. This system is associated with one of Nigeria's largest ethnic groups.

ANSWER: **Yoruba** myth

[E] The sea orisha Olokun used this substance to create the Atlantic Ocean. Other orishas associated with this substance include the river goddesses Oya and Otin.

ANSWER: **water**

[H] Oshun volunteered to enter this orisha's domain when he held back the rain, culminating in her role as the messenger of rain. This chief orisha who governs the heavens is considered the Almighty Divine god among Yoruba Christians and Muslims.

ANSWER: **Olorun** [accept **Olodumare**]

<Morales — Mythology>



20T. A surprise attack in this war in which Prince Lobkowitz drove the army of the Count de Gages back became known as the First Battle of Velletri. The Indian theatre of this war was known as the First Carnatic War, and the naval operations of this war were merged with the War of Jenkins' Ear between Britain and Spain. Louisbourg was captured in the theatre of this war that involved America, which became known as (\*) King George's War. This war that began after Frederick II's violation of the Pragmatic Sanction was ended by the Treaty of Aix-la-Chapelle. For 10 points, name this war concerning Maria Theresa's ascension to the Habsburg throne.

ANSWER: War of the **Austrian Succession**

<Morales — European History>

20B. The folk song "Mo Li Hua," which is about one of these objects, is used as a motif to represent the title character of Giacomo Puccini's opera *Turandot*. For 10 points each:

[H] Name these objects. In Act II of Richard Wagner's opera *Parsifal*, Maidens named for these objects that live in Klingsor's magic garden attempt to seduce Parsifal.

ANSWER: **flowers** [accept **jasmines**; accept **Flower** Maidens]

[E] The "Flower Duet" is sung in *Lakmé*, an opera by Léo Delibes which is set in this modern-day country. The opera *Satyagraha* by Phillip Glass loosely follows the life of Mahatma Gandhi, who campaigned for this country's independence.

ANSWER: Republic of **India** [or **Bhārat** Gaṇarājya]

[M] In an opera by Richard Strauss, Octavian gives a silver one of these flowers to Sophie on behalf of Baron Ochs. That opera is titled for *The Knight of [one of these flowers]*.

ANSWER: **roses** [accept *Der **Rosen**kavalier* or *The Knight of the **Rose*** or *The **Rose**-Bearer]*

<Rao / An — Other Fine Arts>