2020-2021 MOQBA Novice

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Packet 2

Tossups

1. This athlete was the first to tie Steffi Graf's singles and grand slam records in the Open era, and this athlete is the closest to overcoming Margaret Court's all time records. This athlete's namesake "slam" involves being the reigning Grand Slam champion in different calendar years. This owner of the Aneres clothing line is married to Reddit co-founder Alexis (*) Ohanian and announced their engagement in r/ISaidYes ["r slash I Said Yes"]. Carlos Ramos controversially called three code violations against this athlete, resulting in her loss to Naomi Osaka in the 2018 US Open. For 10 points, name this tennis superstar, the sister of Venus.

ANSWER: **Seriena Williams** [prompt on Williams; do NOT accept or prompt on "Venus Williams"] <Popular Culture> <Ganon Evans>/<ed. SB>

2. The protagonist of this story asks Whitney if he cares about the feelings of a jaguar, and later saves his own life by building a "Malay man-catcher" and a "Burmese tiger pit." This story's protagonist declines to be whipped by Ivan, thus setting up a contest with Zaroff, (*) whose motto is "life is for the strong." Rainsford finds himself on a deserted Caribbean island in this story on which he eludes being killed due to his knowledge of the habits of big game. For 10 points, name this short story by Richard Connell in which Zaroff hunts Rainsford for sport.

ANSWER: "The Most Dangerous Game" < American Literature > < Jason Loy > / < ed. SB >

3. The "characteristic" type of these mathematical objects relate to the eigenvalues of a matrix. Any function can be approximated arbitrarily well by these objects using Taylor series. Symmetric sums of values related to these entities can be found with Vieta's formulas. (*) Synthetic division can be applied to factor these entities, whose roots can be found by setting their value to zero. For 10 points, name these entities exemplified by quartics and quadratics, expressions consisting of multiple terms with varying degrees.

ANSWER: polynomials [or characteristic polynomials] <Math> <Aadi Karthik>/<ed. CT>

4. One of these stories is represented by the marriage of An and Ninhursag in the Barton Cylinder. The sacrifice of Purusha catalyzed this process in a story from the Rig Veda. The convergence of the Ogdoa, which includes Nu and Kauket, is one Egyptian example of these myths. One of these stories recounts how (*) Pangu divided the World Egg. The Judaic and Christian version of this story is found in the first chapter of the Book of Genesis. For 10 points, name these myths that describe how the world or the Earth came to be.

ANSWER: <u>creation</u> (of the world) myths [or <u>creation</u> stories] <Mythology> <Jason Loy>/<ed. LW>

- 5. The standard Latin text of this book in one faith is known as the Vulgate. Thomas Jefferson kept a copy of this book where he cut out any reference to supernatural phenomena. Whig politician Theodore Frelinghuysen led an American "Society" dedicated to these objects. One of these historic artifacts was kissed by George (*) Washington during his first inauguration. In the United States, popular English-language versions of this book have included Webster's Revision, the Good News Translation, and the King James Version. For 10 points, name this holy text of Christianity. ANSWER: <u>Bible</u> [prompt on <u>book</u> until "this book" is read] <Miscellaneous History> <Vasa Clarke>/<ed. DS>
- 6. Over 100,000 people left this leader's country for a northern neighbor during the Mariel Boatlift. This leader of the 26th of July movement declared that "history will absolve me" when on trial for leading a raid on the Moncada Barracks. This man's forces fought a guerilla war in the Sierra Maestra mountains against the government of Fulgencio Batista. The Bay of (*) Pigs Invasion was a failed attempt to topple this leader, who came to power with the help of Che Guvera. For 10 points, name this man who was Cuba's communist leader from 1959 to 2008.

ANSWER: Fidel Castro [or Fidel Alejandro Castro Ruz] < World History> < Doug Simons>< ed. DS>

7. T.S Eliot's character J. Alfred Prufrock compares himself to the subject of this poem by discussing "yellow smoke that slides along the street." This poem's narrator discovers rubies "by the Indian Ganges' side" before reflecting that his love will grow "vaster than empires, (*) and more slow." This poem asks to "roll all our strength and all our sweetness into one ball" after noticing "Time's winged chariot hurrying near." For 10 points, name this poem which opens with the line "had we but world enough and time," written by Andrew Marvell.

ANSWER: "To His Coy Mistress" <British Literature> <Ganon Evans>/<ed. SB>

8. This man's last action on his deathbed was to bequeath seven coins to his wife. Some of this man's followers fled to Aksum to escape persecution from the Quraysh. The Year of Sorrow in this man's life included the death of his wife Khadijah; three years later, he led the *Hijra*, a migration from his hometown to (*) Medina. While this man meditated in the cave of Hira, the angel Jibril commanded him to "read" before revealing the Quran to him. For 10 points, name this Mecca-born major prophet of Islam.

ANSWER: Muhammad [or Mohammed] < Religion > < Jason Loy > / < ed. LW >

9. This artist met his first wife while designing the set for Erik Satie's ballet *Parade*. His African-influenced period includes the paintings *Harlequin* and *Les Demoiselles d'Avignon*. One of this artist's best known works features a disembodied hand holding a broken sword and served to protest the (*) bombing of the title Basque town. Early phases of this man's work include the Blue Period and the Rose Period. For 10 points, name this Spanish painter of *Guernica* who developed Cubism.

ANSWER: Pablo <u>Picasso</u> [or Pablo Ruiz y <u>Picasso</u>; or Pablo Diego Jose Francisco de Paula Juan Nepomuceno Crispin Crispiniano Maria Remedios de la Santisima Trinidad Ruiz <u>Picasso</u>] <Visual Fine Arts> <Jason Loy>/<ed. JO>

10. A proton symporter is used to facilitate active transport into the companion cells of this tissue. Positive hydrostatic pressure moves material through this tissue from "sources" to "sinks" according to Ernst Munch's Pressure Flow Hypothesis. Girdling, or ring-barking, primarily removes this tissue, whose namesake (*) sap travels through plates in sieve tube elements. This tissue consists of living cells, unlike the xylem, which consists of mostly dead cells. For 10 points, name this vascular tissue that shuttles sugar around plants.

ANSWER: phloem <Biology> <Vishal Kanigicherla>/<ed. AK>

- 11. The velocity of the envelope of these phenomena is the group velocity, which are contrasted with the phase velocity. Nodes and antinodes alternate in the "standing" type of these phenomena. Depending on whether these phenomena oscillate perpendicular or parallel to their direction of propagation, they can be classified as (*) longitudinal or transverse. The vertical distance between a crest and trough of these phenomena is their amplitude, and these phenomena can be described by their frequency. For 10 points, name these phenomena, repeating disturbances traveling through a medium. ANSWER: waves [accept types of waves, like standing waves, longitudinal waves, and transverse waves | Jason Loy> /<ed">Physics>/<ed. AK>
- 12. In a work by this thinker, judgments such as "This steak is good" and "This chair is soft" are considered "agreeable" forms of aesthetic judgments. Another work by this thinker is divided into sections titled "Doctrine of Right" and "Doctrine of Virtue." That work by this thinker is *The Metaphysics of Morals*. This thinker characterized the Enlightenment as "man's (*) emergence from his self-imposed immaturity." This thinker explored the idea of the categorical imperative and is known for his three *Critiques*. For 10 points, name this German author of the *Critique of Pure Reason*. ANSWER: Immanuel Kant <Philosophy> <William Grossman>
- 13. The historian Priscus described a dinner with this leader in which the Roman representatives were given the worst seats at the table. This nephew of Rugila and brother of Bleda interpreted Honoria's plea for help from his army as a marriage proposal, which led to his defeat at the Battle of the (*) Catalaunian Plains. Two years after losing to the Romans, this husband of Ildeco died of a nosebleed on his wedding night in 453. For 10 points, name this man nicknamed the "Scourge of God," who led the Huns.

ANSWER: Attila the Hun < European History > < Jason Loy > /< ed. DS >

- 14. This author wrote about an "aged stranger" that delivered a message about the suffering of a nation's enemies in his short story "The War Prayer." The title character is elected mayor of Dawson's Landing after proving that Tom and Chambers were switched at birth in this man's *Pudd'nhead* (*) *Wilson*. One of this author's characters accompanies the slave Jim as he escapes, and another implicates Injun Joe, not Muff Potter, in the murder of Dr. Robinson. For 10 points, name this Missourian author best known for creating Huckleberry Finn and Tom Sawyer.

 ANSWER: Mark <u>Twain</u> [or Samuel Langhorne <u>Clemens</u>] <American Literature> <Jason Loy>/<ed. SB>
- 15. This movie ends with a woman monologuing "she wouldn't even harm a fly" as a skull is superimposed over a man's face. The plot of this movie is set in motion after \$40,000 is stolen from a real-estate office. This movie climaxes after a woman hits a lightbulb after discovering a mummified body in the basement. A flushing (*) drain cuts to a woman's eye in an iconic scene from this movie. The cross-dressing Norman Bates murders Marion as she takes a shower in, for 10 points, what 1960 thriller by Alfred Hitchcock?

ANSWER: Psycho < Other Arts - Film> < Ganon Evans>/<ed. JO>

16. A letter by this poet describing how he ignored a shepherd's warnings and climbed Mont Ventoux is collected in his *Epistolae Familiares*. This poet wrote about the defeat of Hannibal Barca at the Battle of Zama in his epic poem *Africa*. This poet opened one of his collections by addressing a woman who "hear[s] the sound, in scattered rhymes." That collection by this man consists of 366 poems, mostly (*) sonnets, about a woman whom he first met in Avignon on Good Friday. This poet's namesake sonnet consists of an octave and sestet. For 10 points, name this Italian poet, who detailed his love for Laura in *Il Canzoniere*.

ANSWER: Petrarch [or Francesco Petrarca] < European/World Literature > < Aadi Karthik > / < ed. JO >

17. They're not neutrinos, but one goal of the Super Kamiokande Experiment is to determine the lifespan of these particles, the primary constituents of cosmic rays. Inverse beta decay transforms these particles into neutrons. According to Bronsted-Lowry theory, substances that donate these particles are bases, and they are composed of two (*) up quarks and one down quark. A hydrogen-1 cation is one of these particles, which are found in the atomic nucleus, along with neutrons. For 10 points, name these subatomic particles with a positive charge.

ANSWER: <u>proton</u>s [prompt on <u>hydrogen ion</u>s with "What subatomic particles are those?", but do NOT accept or prompt on just "hydrogen"] <Chemistry> <Jason Loy>/<ed. AK>

18. Terry Riley's best known work is named for this note, and this note's minor key is the key of Chopin's *Revolutionary* etude. Ludwig van Beethoven's Fifth Symphony is in this note's minor key. It's not B flat, but trumpets in this note's key are common in orchestral settings. In general, instruments in this note's key, such as the bassoon or flute, are called (*) non-transposing. This note's minor key has three flats, so its relative major is E flat major. For 10 points, name this note, whose major scale has no sharps or flats.

ANSWER: <u>C</u> [or *In* <u>C</u>; prompt on <u>C Major</u> or <u>C Minor</u>] <Auditory FA> <Aadi Karthik>/<ed. WG>/<ed. JO>

19. An Art Deco skyscraper built in 1931 in this city was the tallest building west of the Mississippi River until 1961 and is named for a company that left the building in 1991. This city's 18th & Vine district is home to the American Jazz Museum and Negro Leagues (*) Baseball Museum. It's not Los Angeles, but a one block area with frequent live music performances known as "this city Live!" sits in this city's Power & Light District. A baseball stadium nicknamed "The K" is located in, for 10 points, what Missouri city, which shares its name with a city in a neighboring state?

ANSWER: Kansas City, Missouri [or Kansas City Live!] < Geography > < William Grossman >

20. The Danziger Bridge Shootings took place in the aftermath of this natural disaster. Michael Brown resigned shortly after this event even though one president had earlier declared that "Brownie, you're doing a heck of a job." The Lower (*) Ninth Ward of a city then led by Ray Nagin was hit especially hard by this event. The federal government's response to this disaster led Kanye West to declare that "George Bush doesn't care about black people." For 10 points, name this 2005 hurricane that killed at least 1200 people in and around New Orleans.

ANSWER: Hurricane Katrina < American History> < Jason Loy>/<ed. DS>

Tiebreaker. Charlotte Lennox called her protagonist Arabella the female version of this character in a 1752 novel. Don Haldudo tricks this character into thinking that he will stop beating his servant Andrew. He attempts to detain two priests on camelback whom he believes are kidnappers, and is defeated in a joust by Samson Carrasco, who poses as the Knight of the White (*) Moon. This man appoints his squire as the governor of the island of Barataria. Sancho Panza fails to convince him that the giants that this man wants to fight are actually windmills. For 10 points, name this delusional knighterrant created by Miguel de Cervantes.

ANSWER: Don <u>Quixote</u> [or Alonso <u>Quixano</u>; or <u>Alonso</u> Quixano; or <u>The Ingenious Gentleman Don <u>Quixote</u> of La Mancha; or El Ingenioso Hidalgo Don <u>Quixote</u> de la Mancha; or <u>The Female <u>Quixote</u>] <European/World Literature> <Jason Loy>/<ed. JO></u></u>

Bonuses

1. The Mosuo culture of China practices a "walking" form of this practice. For 10 points each:

[10] Name this custom, sometimes formalized by the payment of a bride price.

ANSWER: marriage [or synonyms, such as a wedding]

[10] In contrast to a bride price is this payment made by a woman's family to her prospective husband, which some countries have outlawed due to disputes over it.

ANSWER: dowry

[10] In many Jewish traditions, divorced couples will receive a get, which allows them to re-marry in the faith because it grants this status to the previous marriage.

ANSWER: annulled [or annulment] <Social Science> <Jason Loy>/<ed. WG>

2. This character hears "a dismal universal hiss" as he and his "thrones, dominations, princedoms, virtues, [and] powers" transform into serpents. For 10 points each:

[10] Name this character who disguises himself to evade Uriel and climb the Tree of Life, but is caught by the Archangel Gabriel.

ANSWER: Satan [or Lucifer, accept the Devil]

[10] This epic poem chronicles Satan's rebellion against God and subsequent temptation of Adam and Eve. Satan constructs the palace of Pandemonium in Book Two of this work.

ANSWER: Paradise Lost

[10] This English poet was completely blind when dictating *Paradise Lost* to his daughters, and later lamented his condition in the poem "On His Blindness."

ANSWER: John Milton <British Literature> <Ganon Evans>/<ed. SB>

3. This figure has an atypically large head and right hand so his features would have been more defined from the roof of the Florence Cathedral. For 10 points each:

[10] Name this figure, a Michelangelo statue of whom is housed in the Galleria dell'Accademia and triumphantly holds a sling over his shoulder.

ANSWER: David

[10] This other Italian sculptor's *David* wears a laurel helmet while stepping upon the head of Goliath. This sculptor utilized cracked wood for an emaciated statue of the *Penitent Magdalene*.

ANSWER: Donatello [or Donato di Niccolò di Betto Bardi]

[10] A statue in this style by Donatello depicts the condotierri *Gattamelata*. This style depicts its subject on horseback, and a notable example on the Capitoline Hill is one of Marcus Aurelius.

ANSWER: equestrian statues < Visual Fine Arts> < Ganon Evans>/<ed. JO>

4. Answer the following about the Cori cycle. For 10 points each:

[10] In the Cori cycle, this compound is cycled between multiple organs. During fermentation, this compound is formed when pyruvate is reduced by NADH after glycolysis.

ANSWER: lactate [accept lactic acid]

[10] After lactic acid is produced in the muscles, it is then converted into this molecule. This molecule is stored as glycogen, and its concentration in the blood can be decreased by insulin.

ANSWER: glucose

[10] Gluconeogenesis in the Cori cycle takes place within this organ, the largest one found inside the body. Consumption of alcohol can cause cirrhosis, or tissue scarring in this organ, and it becomes inflamed in hepatitis.

ANSWER liver <Biology> <Bo Chi>/<ed. AK>

5. Answer the following about the role of the *pythia* in Ancient Greece. For 10 points each:

[10] *Pythias* were priestesses at this temple of Apollo, which was considered the center of the Ancient Greek world. The "oracle" at this temple would predict harvests and other omens.

ANSWER: **Delphi** [accept the Oracle at **Delphi**]

[10] The *pythia* predicted that a "wooden wall" of ships would protect the Greeks at this battle, during which a force led by Themistocles and the Athenian navy crushed the Persian fleet during the second Persian invasion of Greece.

ANSWER: Battle of **Salamis**

[10] The second Persian invasion of Greece was led by this monarch, the son of Darius I. While victorious at Thermopylae, his armies were defeated at Platea after they burned Athens.

ANSWER: Xerxes I < Miscellaneous History > < Ganon Evans > / < ed. DS >

6. This deity picked a fight with Heracles after the latter killed this god's son Cycnus. For 10 points each:

[10] Name this Greek war god who fathered Phobos, Deimos, and Adrasteia by Aphrodite.

ANSWER: Ares

[10] This god, Aphrodite's husband, caught Aphrodite and Ares in the act by trapping them in a net made of chains. This god was injured after Hera threw him off Mount Olympus onto the island of Lemnos.

ANSWER: **Hephaestus**

[10] One of Hephaestus' most impressive creations was Talos, a huge bronze automaton who guarded this island, ruled at the time of his creation by Minos.

ANSWER: Crete < Mythology> < Jason Loy>/<ed. LW>

7. Rufus King was the last presidential candidate of this party, and he lost in a landslide in 1816. For 10 points each:

[10] Name this early American political party, which counted John Adams and Alexander Hamilton among its members. The failure of the Hartford Convention led to the demise of this party.

ANSWER: Federalist Party

[10] Rufus King lost to this man in the 1816 presidential election. This president presided over the "Era of Good Feelings," and his namesake doctrine decries European intervention in the Americas.

ANSWER: James Monroe

[10] The Era of Good Feelings ended with the 1824 election, during which Andrew Jackson's supporters accused Henry Clay of this "deal" to throw his supporters' votes to John Quincy Adams.

ANSWER: Corrupt Bargain < American History > < Jason Loy > / < ed. DS >

8. Pittsburgh Penguins winger Josh Archibald is the most recent player to have baptized his child in this item. For 10 points each:

[10] Name this trophy awarded to the NHL Champion. The St. Louis Blues won this trophy in 2019 after defeating the Boston Bruins in a 4-3 finals.

ANSWER: the <u>Stanley</u> Cup [accept La Coupe <u>Stanley</u>; accept Lord <u>Stanley</u>'s Cup or Lord <u>Stanley</u>'s Mug; prompt on the Holy Grail or just the Cup]

[10] The Stanley Cup was first won by this team, whose current roster includes Carey Price and Nick Suzuki. This team has won 24 NHL Championships and still holds the record for most points in a season.

ANSWER: $\underline{Montreal}$ $\underline{Canadien}$ s [accept either underlined; accept Club de hockey $\underline{Canadien}$; accept the \underline{Habs}]

[10] This "Magnificent One" led the Pittsburgh Penguins to back-to-back Stanley Cup wins in 1991 and 1992, and is considered the greatest center of all time. He is the current owner of the Pittsburgh Penguins. ANSWER: Mario <u>Lemieux</u> [accept <u>Super Mario</u>] <Popular Culture> <Ganon Evans>/<ed. SB>

- 9. Reverend Parris catches his niece Abigail Williams trying to cast a spell on Elizabeth Proctor in this play. For 10 points each:
- [10] Name this play in which Abigail and Tituba implicate forty people as witches in Salem. Giles Corey and John Proctor are among those executed in this play.

ANSWER: The Crucible

[10] This author of *Death of a Salesman* wrote *The Crucible* in part to criticize Joseph McCarthy and the House Un-American Activities Committee.

ANSWER: Arthur Miller

[10] Miller's play *After the Fall* is a thinly veiled account of his marriage to this actress, the model for Maggie in the play. Miller married this actress after her divorce from Joe DiMaggio.

ANSWER: Marilyn <u>Monroe</u> [or Norma Jean <u>Mortenson</u>, or Norma Jeane <u>Baker</u>] <American Literature> <Jason Loy>/<ed. SB>

10. Answer the following about Gabbard diagrams. For 10 points each:

[10] In a Gabbard diagram, this quantity is plotted against period. The Karman line has a constant value for this quantity, 100 kilometers.

ANSWER: **height** [or **distance**]

[10] Gabbard diagrams are used to model the breakup of these objects, which can be either natural, like the moon, or artificial, like WMAP.

ANSWER: Satellites

[10] A typical Gabbard diagram indicates the height of a satellite fragment at two points. This one of those two points is the point at which the fragment is closest to Earth in its orbit.

ANSWER: <u>perigee</u> [prompt on <u>periapsis</u>, do not accept or prompt on "perihelion"] <Astronomy> <Aadi Karthik>

- 11. During one of these processes, temperature does not change despite a change in enthalpy. For 10 points each:
- [10] Name these processes that include deposition and condensation.

ANSWER: **phase change**s [accept **phase transition**s; or other equivalents mentioning "phase"]

[10] In this phase change, a solid changes directly into a gas. This process is the reverse of deposition.

ANSWER: sublimation

[10] For first-order phase changes, this name is given to the amount of energy needed to complete a phase change without changing the temperature. When the phase change in question is freezing, the energy is called *this* "of fusion."

ANSWER: latent heat [or latent heat of fusion] < Chemistry > < Jason Loy > / < ed. AK >

- 12. In 2019, this leader's Bharatiya Janata Party increased its majority in the Lok Sabha. For 10 points each:
- [10] Name this current Prime Minister of India. As Chief Minister of Gujarat, he was accused of inciting anti-Muslim riots.

ANSWER: Narendra Modi [or Narendra Damodardas Modi]

[10] Modi repealed Article 370 of the Indian constitution, removing special privileges from this region. This region, whose cities include Jammu, is contested between India and Pakistan.

ANSWER: Kashmir

[10] Modi controversially passed a Citizenship Act which denied citizenship to Muslim people of this status. ICE is an agency targeted with deporting people of this status in the United States.

ANSWER: <u>undocumented</u> immigrants [or <u>illegal</u> immigrants; or more specific answers such as <u>DREAMers</u>] <Current Events> <Arjun Nageswaran>/<ed. SB>

- 13. The encyclical *Ineffabilis Deus* established this doctrine as Catholic dogma, and early artistic depictions of this event show Anna and Joachim conceiving by kissing. For 10 points each:
- [10] Name this Catholic teaching that states that the Virgin Mary is free from original sin. Its feast day is December 8th, and it is almost universally rejected by Protestants.

ANSWER: Immaculate Conception

[10] Another major doctrinal difference between Catholicism and Protestantism is this practice, which Catholics perform on infants and many Protestant denominations administer to adults by immersion.

ANSWER: baptism

[10] A doctrinal controversy within Protestantism centers around this practice, related in the Acts of the Apostles that began on the Day of Pentecost. Charismatic and Pentecostal churches call this "spiritual gift" the baptism of the Holy Spirit.

ANSWER: glossolalia [or speaking in tongues] <Jason Loy> <Religion>/<ed. LW>

- 14. Conservative historians in this country accused their opponents of promoting a "Black Armband" view of history. For 10 points each:
- [10] Name this country, whose colonization following the arrival of the First Fleet at Botany Bay was the subject of the "History Wars." The Aborigines are the indigenous people of this country.

ANSWER: Australia

[10] The "history wars" began after the *Bringing Them Home* report was released on these people. This term refers to Australian Aborigines taken from their families as children by the Australian government.

ANSWER: **Stolen Generation**s

[10] Kevin Rudd, a prime minister from this party, officially apologized to the Stolen Generations in 2008 on behalf of the Australian government. This center-left party is one of Australia's two biggest political parties, alongside the center-right Liberal party.

ANSWER: <u>Labour</u> Party <World History> <Doug Simons><ed. DS>

- 15. The narrator of a poem describes these objects as "continuous as the stars that shine" while seeing them "tossing their heads in a sprightly dance." For 10 points each:
- [10] Name these objects, which appear "fluttering and dancing in the breezer" while the narrator "wandered lonely as a cloud."

ANSWER: **daffodil**s [prompt on flowers]

[10] This British poet of "I Wandered Lonely as a Cloud" collaborated with Samuel Taylor Coleridge on the Lyrical Ballads.

ANSWER: William Wordsworth

[10] In Volume 1 of Lyrical Ballads, Wordsworth remarks "five years have past" since he last felt the "unremembered pleasure" of this place, which Wordsworth recalls in "Lines Composed a Few Miles Above" this Welsh church.

ANSWER: Tintern Abbey <British Literature> <Ganon Evans>/<ed. SB>

- 16. Samuel Slater's theft of factory plans helped spread this mid 18th to early 19th century movement from Britain to the United States. For 10 points each:
- [10] Name this period, during which technological advancement spurred rapid population growth and urbanization. The Newcomen steam engine and the spinning jenny were invented during this period.

ANSWER: First **Industrial Revolution**

[10] This radical secret society of textile workers destroyed looms and other machines that were replacing them in England in the 1810s. Its name is used today for anyone resistant to technological change. ANSWER: **Ludd**ites

[10] Because of easy transport from Liverpool, this English city, nicknamed "Cottonopolis," became the center of the British textile industry. The Peterloo Massacre occurred just outside this city.

ANSWER: Manchester < European History> < Jason Loy>/<ed. DS>

17. Elliott Carter's *Changes* was written for this instrument. For 10 points each:

[10] Name this instrument, famously played by Andres Segovia and Francisco Tarrega. Joaquin Rodrigo's *Concierto de Aranjuez* is also for this instrument.

ANSWER: (classical) guitar [or guitarra]

[10] Miles Davis adapted the Adagio from the *Concierto de Aranjuez* for his album titled for sketches from this country. The guitar is also used in flamenco music from this country's region of Andalusia.

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

[10] The second track of *Sketches of Spain* is "Will o' the Wisp," from a de Falla ballet titled for *this word*, The Magician. John Coltrane released an album called A *this* Supreme.

ANSWER: <u>love</u> [or <u>Love</u>, The Magician; or A <u>Love</u> Supreme; or <u>amor</u>] <Auditory FA> <Aadi Karthik>/<ed. WG>

18. The square of the magnitude of this function for a particle is the probability of finding that particle at a given position and time. For 10 points each:

[10] Name this function, denoted psi, which describes the quantum state of a particle.

ANSWER: wavefunction

[10] A partial differential equation named for this scientist describes how a wavefunction changes over time. This Austrian physicist also names a thought experiment involving a namesake cat.

ANSWER: Erwin Schrodinger

[10] When Schrodinger's cat is observed, wavefunction collapse occurs, meaning that the wavefunction takes this value for all states that are not the observed state. For example, if Schrodinger's cat is observed to be dead, this is the probability that it is alive.

ANSWER: **zero** [or **0**] < Physics > < Aadi Karthik >

19. Answer the following about firsts in literature. For 10 points each:

[10] This Japanese account of the title prince and his love affairs is considered by some to be the world's first novel. It was written by Lady Murasaki Shikibu.

ANSWER: The Tale of Genji [or Genji monogatari]

[10] The world's oldest surviving epic poem tells of this title Sumerian hero who befriended Enkidu, resisted Ishtar's advances, and sought the advice of flood survivor Utnapishtim.

ANSWER: **Gilgamesh** [or the *Epic of Gilgamesh*]

[10] Early modern satirist Francois Rabelais wrote about Gargantua and Pantegruel, two of these kinds of beings. One of these beings drowns thousands of Parisians by urinating on them.

ANSWER: giants < European/World Literature > < Jason Loy > / < ed. JO >

20. Answer some questions about secession from European countries. For 10 points each:

[10] This northernmost constituent country of the United Kingdom rejected independence in a 2014 referendum. This nation contains the cities of Edinburgh and Glasgow.

ANSWER: Scotland

[10] The Constitutional Court of Spain declared a 2017 independence referendum in this region, which includes Barcelona, unconstitutional.

ANSWER: <u>Catalonia</u> [or <u>Cataluna</u>; or <u>Catalunya</u>]

[10] This country with an ethnic Albanian majority declared its independence from Serbia in 2008. This country is the namesake of a 1998-99 war in which NATO provided support against Yugoslavia.

ANSWER: Republic of **Kosovo** [or **Kosova**; or **Kosova**; or **Kosovo** i Metohija; or the **Kosovo** Conflict] <Geography> <Jason Loy>/<ed. WG>