

Michigan Fall Tournament (Written by Will Nediger, Kurtis Droge, Cody Voight, Saul Hankin, Ben Forster, Siddhant Dogra, and Peter Jiang)

Packet by Louisville

Warm-Up Tossup (Optional)

One character on this show claims to need money to help treat his wife's breast cancer, but he actually uses it to have an affair. A recurring plot point on this show is the result of allegations of discrimination against Folsom Foods. In this show's most recent season, two enemies discover that they have a mutual love of cats, culminating in a dispute over the ownership of a cat named Mikado. Its newest season also introduces the character of Ava Hessington, an oil magnate portrayed by Michelle Fairley of *Game of Thrones* fame. On this show, Gina Torres plays Jessica, the leader of a law firm that includes Harvey Specter. That firm only accepts graduates from Harvard, causing Mike Ross to lie about having gone there. For 10 points, name this USA show about lawyers, named after the outfit that they might wear.

ANSWER: Suits

Tossups

1. This author's first known poetical work consists of twenty six stanzas, each of which starts with the next letter of the alphabet. This author wrote "I am so sorry now that you are light" in a poem addressed "to His Empty Purse." In one of his works, Alceste complains about his badly written female characters, which leads him to create *The Legend of Good Women*. In one of his stories, three men discover some gold coins beneath an oak tree while attempting to kill death. A knight relates how he lost a game of chess to fortune in a dream from his *The Book of the Duchess*. He inserted himself as a character in a work where he is interrupted while telling the Tale of Sir Thopas. In that work, a large group of people that includes the Reeve and the Wife of Bath shares stories while on a pilgrimage. For 10 points, name the Middle English author of *The Canterbury Tales*.

ANSWER: Geoffrey Chaucer

2. For semiconductors, this quantity is given by the reciprocal of fundamental charge times quantity mobility of electrons times electron density plus mobility of holes times hole density. Scattering of defects at low temperatures results in an uptick in this quantity according to the Kondo effect. The skin depth of a conductor is proportional to the square root of this quantity. This quantity can be divided by thickness to give the sheet form of a related quantity. This quantity is defined as the magnitude of the electric field divided by current density. Symbolized rho, it is multiplied by length over area to give a more widely used quantity, which is why it has units of Ohm meters. For 10 points, identify this quantity whose inverse is conductivity.

ANSWER: electrical resistivity [or specific electrical resistance; do not accept or prompt on "resistance"]

3. Creatures described in this book include one whose "strength is in his loins" and whose "force is in the navel of his belly," as well as one that "maketh the sea like a pot of ointment" and "is a king over all the children of pride." One man in this book complains that "My bone cleaveth to my skin and to my flesh, and I am escaped with the skin of my teeth." In this book, God speaks out of a whirlwind and denounces as "words without knowledge" the accusatory speeches of Eliphaz, Bildad and Zophar. By the end of this book, the title resident of Uz has seven sons and three daughters once again, along with twice as many animals as before. For 10 points, name this book of the Bible in which God lets Satan test a man's piety by causing him lots of suffering.

ANSWER: Book of Job

4. This composer collaborated with Lejaren Hiller on a work for harpsichord. One of his solo piano compositions is based on Erik Satie's *Socrate*. Betty Freeman is the dedicatee of a set of extremely difficult etudes by this composer, who also composed the *Etudes Boreales* and *Etudes Australes*. This frequent collaborator of Merce Cunningham wrote a work which is currently being performed on an organ in St. Burchardi Church, and will be completed in the year 2640. This composer of *As Slow As Possible* also wrote a collection of twenty pieces called *Sonatas and Interludes*, which, like many of his works, are for prepared piano. He is best known for a piece which instructs the performer to do nothing for the title amount of time. For 10 points, name this avant-garde American composer of 4'33".

ANSWER: John Milton Cage, Jr.

5. In this novel, an artist gets annoyed when people say that he has excellent technique. One character in this novel asks a question about mushrooms instead of making a marriage proposal, and that character's half-brother successfully proposes by using chalk to write acronyms. Its only named chapter is "Death," in which Nikolai dies from consumption. Makhotin and Gladiator win a steeplechase event in this novel at which the mare Frou-Frou breaks her back. In this novel, a man who has a spiritual awakening after a thunderstorm, Konstantin Levin, is married to Kitty. This novel's title character convinces her sister-in-law Dolly to forgive her brother Stiva for cheating on her, but then has a destructive affair with Count Vronsky that drives her to throw herself under a train. For 10 points, name this Leo Tolstoy novel.

ANSWER: Anna Karenina

6. The spectra of these objects feature a "big blue bump" in the UV to optical region. Although not Seyfert galaxies, line widths greater than 10,000 kilometers per second characterize the broad line region of these objects. These objects can be used to determine the time of the reionization era because their spectra contain many absorption lines in the Lyman-alpha forest, which is absorbed by neutral hydrogen to create a Gunn-Peterson trough. Observation of two of these objects provided the first direct evidence for gravitational lensing. These objects are powered by an accretion disc around a supermassive black hole. For 10 points, identify these very luminous active galactic nuclei that are normally classified as either "radio-quiet" or "radio-loud".

ANSWER: quasars [or quasi-stellar radio sources; or quasi-stellar objects; or QSOs; accept double quasars or double QSOs; or active galactic nuclei; or AGN]

7. During a battle in this war, an attempt to capture Fort San Lazaro failed because the attackers' ladders were too short, ending in a decisive victory for the forces of Blas de Lezo. In an episode of this war, a Pacific expedition under George Anson ended up circumnavigating the globe in a quest to intercept the Manila Galleon, while, in another episode, Edward Vernon captured the city of Portobello. During this war, an invasion of St. Simons Island was repelled by James Oglethorpe at the Battle of Bloody Marsh. Seeing an unsuccessful amphibious assault on Cartagena de Indias, the incident that sparked this war involved the boarding of the ship *Rebecca*. Eventually incorporated into the War of Austrian Succession, it was fought mostly in the Caribbean. For 10 points, what war between Britain and Spain is named for a certain ship captain's severed body part?

ANSWER: War of Jenkins' Ear [prompt on "War of Austrian Succession" before mentioned]

8. During this battle, one soldier supposedly saw a man with a beard as large as a shield before being struck with permanent blindness. One side in this battle elected to fight at its side rather than to defend a pass at Pallini. One polity's forces arrived too late to fight in this battle because its generals refused to leave their city until the full moon. This battle's losing commanders, Datis and Artaphernes, had previously sacked Eretria in response to the burning of Sardis. At this battle, the winning side was technically led by a ten-general body, though effective command was held by Miltiades. One story about this battle tells of Pheidippides, who died announcing the Athenian victory after running nonstop to Athens. For 10 points, what 490 BCE battle that ended the first invasion of Greece by the Persian Empire is the namesake of a 26.2 mile race?

ANSWER: Battle of Marathon

9. Carbon tetrachloride and a compound consisting of this element bonded to three cyclic groups is used to convert alcohols to alkyl chlorides in the Appel reaction; that same compound is used with DEAD in the Mitsunobu reaction. A compound containing this element and three alkyl groups reacts with an alkyl halide in the Michaelis-Arbuzov reaction, which forms esters of its namesake acid. Those aforementioned three cyclic groups are phenyl. Electrons from the carbonyl bond form a sigma bond with this element in the first step of the Wittig reaction, where its ylide is typically used. The bond between the carbon of a 3' sugar, an ion whose central component is this element, and the carbon of a 5' sugar forms its namesake -diester bond in DNA. This element has violet, red, black and white allotropes. For 10 points, identify this element with chemical symbol P.

ANSWER: phosphorus [or P until it is read]

10. This country's city of The Bottom is the capital of the island of Saba, which is home to its highest peak, Mount Scenery. Arie Slob currently leads this country's ChristianUnion party. From 1994 to 2002, it was led by a coalition which was criticized in the book *The Wreckage of Eight Purple Years*, whose author was assassinated just before this country's general election. A filmmaker from this country was assassinated by Mohammed Bouyeri for criticizing the treatment of women in Islam in his film *Submission*. It's not Denmark, but this country's province of Zeeland contains much of the delta formed by the Scheldt, Meuse and Rhine rivers and borders Belgium to the south. About half of its land area is at or below the level of the North Sea. For 10 points, what country known for its polders and dikes has dual capitals The Hague and Amsterdam?

ANSWER: Kingdom of the Netherlands [accept Holland]

11. This order split off before Metatheria and Eutheria according to the theria hypothesis. This order uses the XY sex-determination system, but has ten sex chromosomes instead of the usual two. The only extant genera in this order are *Ornithorhynchus*, *Tachyglossus* and *Zaglossus*, which contain five species only found in New Guinea and Australia. Instead of having nipples, this order secretes milk through the skins of its abdomen. The male of one species in this order has venomous spurs on its hind legs. This order of mammals has a true cloaca. For 10 points, name this order of egg-laying mammals that includes echidnas and platypuses.

ANSWER: monotremes [or Monotremata; or echidnas or Tachyglossidae before "ten sex chromosomes"]

12. This poet concluded "so now he's gone and I buried him and that's all there is to it" in a poem about a pet who "waits for my arrival waving his fan-like tail in friendship." This author of "A Dog Has Died" wrote "my moist desire nests / in your arms of transparent stone" in a poem beginning "Ah vastness of pines." The speaker of another poem by him "climbed through the lost jungle's tortured thicket" to a "high city of laddered stones" and says "rise up to be born with me, my brother" after reaching the title location. His odes to ordinary things, such as a "large tuna in the market," were collected in *Elemental Odes*. One of his collections includes a poem which begins "tonight I can write the saddest lines" and ends with "A Song of Despair." For 10 points, name the Chilean author of "The Heights of Machu Picchu," which is part of his *Canto General*.

ANSWER: Pablo Neruda [or Neftalí Ricardo Reyes Basoalto]

13. One track on this album is an attempt to describe "a very earthy, folksy, swinging person," according to the song's writer. During this album's first session, Lex Humphries played drums and Cedar Walton played piano. This album's title track uses the keys of B major, G major, and E flat major to create an augmented triad and divides the octave into major thirds in an example of its leader's namesake "changes." Jimmy Cobb and Wynton Kelly replaced Art Taylor and Tommy Flanagan for a song on this album named for the leader's wife, "Naima." The song "Mr. P.C." is a tribute to bassist Paul Chambers, who played with this album's saxophonist under Miles Davis on *Kind of Blue* immediately prior to the recording of this album. For 10 points, what 1960 album by John Coltrane is named for its use of unusually spaced chord progressions?

ANSWER: Giant Steps

14. This thinker contrasted a spider spinning a web to trap food with a bee gathering honey to make food in an argument rejecting scholasticism. This thinker classified magic as applied science and categorized matter into twelve segments arising from the interaction of sulfur and mercury “quaternions.” His planned magnum opus was called the *Instauratio Magna*. He wrote a novel set on the island of Bensalem that features Salomon’s House, the ideal research institute. He listed “the Tribe,” “the Cave,” “the Marketplace,” and “the Theatre” as causes of inherent mental defects as part of his doctrine of the idols. For 10 points, name this English empiricist who wrote *The New Atlantis* and described his namesake inductive approach to the scientific method in *Novum Organum*.

ANSWER: Sir Francis Bacon, 1st Viscount of St. Albans

15. Robert Thornberg studied this phenomenon among Swedish fifth graders, while P.M. Markey studied it using the fake chat room identities Jake and Suzy Harmen. Abraham Ross showed that this phenomenon is not affected by the presence of children. In game theory, this phenomenon is modeled by the volunteer’s dilemma, in which each of N players can only benefit when they exert no effort but at least one other person does. Experiments testing this effect include one where students had a discussion over an intercom and one where people filled out a questionnaire while smoke filled a room. This effect was first studied by John Darley and Bibb Latané, who used concepts like pluralistic ignorance and diffusion of responsibility to analyze the case of Kitty Genovese’s murder. For 10 points, name this psychological effect in which witnesses to an emergency do nothing.

ANSWER: bystander effect [prompt on “social loafing” or “diffusion of responsibility”]

16. The forces of this dynasty emerged victorious at the Battle of Fishing Town. This dynasty’s founder hosted a banquet at which he persuaded all his generals to resign. One of this dynasty’s scientists built a giant hydraulic clock tower, while another described using a magnetic compass for navigation in his *Dream Pool Essays*; the latter is Shen Kuo. Its other intellectuals included the poet and politician Su Shi, an author of the prominent commentary on the four books of Confucius, Zhu Xi, and the author of a *Comprehensive Mirror to Aid in Government*, Sima Guang. This dynasty moved its capital south from Kaifeng to Hangzhou. This dynasty followed the Five Dynasties and Ten Kingdoms Period and lost some territory to the Jin Dynasty before falling to the Mongols. For 10 points, what culturally significant but militarily weak Chinese dynasty lasted from 960 to 1279?

ANSWER: Song Dynasty or Empire

17. In this novel, a male gopher digs the perfect burrow but has to move because he cannot attract a female gopher. One character in this novel commits suicide with an ice pick given to him by a Greek cook. This novel’s first sentence calls its main setting such things as “a poem,” “a stink,” “a tone,” and “a dream.” In this novel, Dora Flood runs a brothel called the Bear Flag Restaurant. Other locations in this novel include the Western Biological Laboratory and the Palace Flophouse; the latter building is owned by the grocer Lee Chong and rented to “Mack and the boys,” a group of bums who try twice to throw a party for Doc. For 10 points, what novel by John Steinbeck is named for the street in Monterey, California where sardines were once processed?

ANSWER: Cannery Row

18. One figure in this painting is missing the upper half of its right ear. Thorns pierce the right foot of another figure in this painting, who has an anklet made of bells and stands near two masks, one of which has a beard. The right side of this painting shows a green vine and a honeycomb being held in the mismatched hands of a creature with the tail of a snake and the head of a girl. Its other figures include a diseased woman clutching her head and an old man with an hourglass on his right shoulder who is pulling back a blue curtain. This painting’s central figure holds a golden arrow in her right hand and a golden apple in her left hand while being caressed by her winged son. For 10 points, name this bizarre painting by Agnolo Bronzino with four title figures.

ANSWER: Venus, Cupid, Folly, and Time [or Allegory with Venus and Cupid]

19. A son of Poseidon named Euphemus who participated in the Calydonian hunt was also a member of this group. Some of these people were descended from members of the Minyan tribe, which is why they are sometimes called the Minyans. This group rescued the four sons of Chalcioppe from a desert island. They released a dove in between a pair of rocks which randomly clashed together called the Symplegades, on the advice of Phineus. A society of women led by Hypsipyle tried to prevent this group from leaving the island of Lemnos. This group was led by a son of Aeson who entered Iolcus wearing only one sandal, thus fulfilling a prophecy regarding the overthrow of Pelias. For 10 points, name this group of heroes who sailed in search of the Golden Fleece under the leadership of Jason.

ANSWER: Argonauts [accept Minyans before mentioned]

20. The ruling in this case was extended to all cases involving imprisonment in *Argersinger v. Hamlin*, while its impact is often said to have been mitigated by *Strickland v. Washington*. Walter Mondale organized a petition of 23 states to express support for its eventual victor. This case extended the decisions in *Johnson v. Zerbst* and a case concerning the Scottsboro boys, *Powell v. Alabama*. Abe Fortas argued for the winning side in this case, whose unanimous decision was delivered by Hugo Black. This case eliminated the “fundamental fairness” doctrine that had been used since *Betts v. Brady*. The defendant was accused of stealing money and alcohol from a Florida pool room and was granted a retrial after initially serving as his own defense attorney. For 10 points, name the 1963 Supreme Court case that ruled that the Sixth Amendment right to counsel applied to state courts in non-capital cases.

ANSWER: Gideon v. Wainwright [accept either underlined name]

21. This character warns against “Dangerous conjectures in ill-breeding minds” at the beginning of one scene, then hangs around doing nothing until the scene ends. When one character ends an impromptu poem with the word “pajock,” this character replies, “You might have rhymed.” This character talks about “stars with trains of fire and dews of blood” in a speech that begins with the line, “A mote it is to trouble the mind’s eye.” This character came from Wittenberg to Elsinore to attend the funeral of a king whose ghost he sees twice in one hour. He later tells that king’s dead son “Good night, sweet prince.” He is the addressee of a speech which takes place in a graveyard and begins “Alas, poor Yorick!” For 10 points, to whom does Hamlet say “There are more things in heaven and earth ... than are dreamt of in your philosophy?”

ANSWER: Horatio

Bonuses

1. Joseph Conrad fictionalized its participants as the “International Society for the Suppression of Savage Customs.”

For 10 points each:

[10] Name this 1884-1885 conference convened by Otto von Bismarck that addressed the Scramble for Africa and elucidated the principle of effective occupation in its General Act.

ANSWER: **Berlin** West Africa Conference

[10] The Berlin Conference officially acknowledged this “Free State” as neutral territory subject to unrestricted international trade. That worked out well for Belgian king Léopold II, since he owned all of it privately.

ANSWER: **Congo** Free State

[10] At the Berlin Conference, this country advocated connecting its African colonies in its Pink Map. This country’s exclave of Goa was later seized by India during Operation Vijay.

ANSWER: **Portugal**

2. In the desert, you can’t remember your name. Remember the names of some deserts, for 10 points each.

[10] This desert in northern China and southern Mongolia is home to the Bactrian camel. From winter to summer, the temperature shift here can exceed 140 degrees Fahrenheit.

ANSWER: **Gobi** Desert

[10] This desert, the namesake of an African country, extends from the Naukluft Mountains in the east to the Skeleton Coast in the west. It is the oldest desert in the world.

ANSWER: **Namib** Desert [do not accept “Namibia”]

[10] This desert in central Australia is home to Dalhousie Springs and Poeppel Corner. The town of Oodnadatta is near this desert, which is a single erg containing many stretches of parallel north-south sand dunes.

ANSWER: **Simpson** Desert

3. In Cranach the Elder’s version of this scene, the main female figure is wearing a feathered red hat. For 10 points each:

[10] Name this scene which was painted many times by Artemisia Gentileschi. In Caravaggio’s version, a spurt of blood shoots from an Assyrian general’s neck as an old maid holding a sheet looks on.

ANSWER: **Judith** beheading **Holofernes** [accept anything mentioning Holofernes getting killed]

[10] Adele Bloch-Bauer posed for two paintings of Judith by this Austrian painter of *The Kiss*, who was friends with Egon Schiele.

ANSWER: Gustav **Klimt**

[10] Unsurprisingly, Artemisia Gentileschi also painted the scene in which Jael kills this Canaanite general with a tent peg.

ANSWER: **Sisera**

4. This city is nicknamed “Fantasy Island” because of its modernist architecture and utopian layout, and much of its urban planning was executed by Lucio Costa. For 10 points each:

[10] Oscar Niemeyer designed many buildings for what South American capital, a planned city finished in 1960?

ANSWER: **Brasília**

[10] Sixteen hyperboloid columns characterize the exterior of this type of building in Brasilia, which was designed by Niemeyer. One of these buildings with a glass exterior was designed by Philip Johnson in Garden Grove, California.

ANSWER: **cathedrals** [accept **Cathedral** of Brasilia; accept Crystal **Cathedral**; prompt on “churches”]

[10] The centerpiece of Niemeyer's Pampulha Project was a building of this type. Dale Chihuly's *Fiori di Como* is located in another building of this type, while one in Montreal incorporates the French and Quebec Pavilions from Expo '67.

ANSWER: casinos [accept more specific answers]

5. This person's power cycle has two isothermal and two isentropic steps. For 10 points each:

[10] Name this French scientist whose namesake, ideal power cycle is the theoretical maximum amount of work that can be obtained from a heat engine.

ANSWER: Nicolas Léonard Sadi Carnot

[10] This power cycle is conceptually similar to the Carnot cycle, except that isentropic compression occurs in the liquid phase and the liquid is then heated to saturation temperature to restart the cycle. It's closely approximated by steam turbines.

ANSWER: Rankine cycle

[10] For the Carnot cycle, this quantity is equal to one minus quantity temperature of the low-temperature reservoir divided by temperature of the high-temperature reservoir.

ANSWER: thermodynamic efficiency [or thermal efficiency]

6. This novel implies one character's death with the blank chapter "Vanished into the Clouds," while in its second chapter, men discuss members of the opposite sex in the "Appraisal of Women on a Rainy Night" scene. For 10 points each.

[10] Name this novel whose later Uji chapters focus on the main character's grandson Niou and great-nephew Kaoru.

ANSWER: *The Tale of Genji* [or *Genji monogatari*]

[10] The author of *The Tale of Genji* used this pen name both for herself and for the niece of Lady Fujitsubo in the novel.

ANSWER: Lady Murasaki Shikibu [accept either name]

[10] This woman is Genji's first and main wife, and she gives birth to Genji's son, Yugiri. In a later scene, she is possessed by a spirit. She is also the subject of a Noh play attributed to Zeami.

ANSWER: Lady Aoi no Ue

7. One of the major school of literary criticism to emerge during the 20th century was the so-called New Criticism. For 10 points each:

[10] One author associated with New Criticism was this co-founder of *The Southern Review* with Cleanth Brooks. He is also known for a novel in which Willie Stark represents Huey Long, *All the King's Men*.

ANSWER: Robert Penn Warren

[10] Cleanth Brooks took the title of his book *The Well Wrought Urn* from a line from this poet's "The Canonization." This poet opened one sonnet with the line "Batter my heart, three-personed God."

ANSWER: John Donne

[10] One forerunner of the New Critics was this fan of close reading. He argued that *Paradise Lost* was not as flawed as others thought that it was in *Milton's God*, and he also wrote *Seven Types of Ambiguity*.

ANSWER: William Empson

8. Answer the following about various types of respiration, for 10 points each.

[10] In glycolysis, a pathway that is part of cellular respiration, this enzyme reversibly cleaves fructose-1,6-bisphosphate to form DHAP and G3P, which the enzyme triosephosphate isomerase converts between.

ANSWER: aldolase

[10] Physiological respiration in humans is controlled by a system of chemoreceptors in the medulla oblongata, pons, and brainstem that trigger breathing in response to the effect of this gas on the pH of the blood.

ANSWER: **carbon dioxide** [or **CO₂**]

[10] Contraction of the diaphragm muscle increases the volume of chest cavity and creates this kind of pressure compared to atmospheric pressure, forcing air into the lungs.

ANSWER: **negative** air pressure

9. For 10 points each, name some eponymous laws from the social sciences.

[10] This law describes the evolution of stops and fricatives in the Proto-Indo-European language. It is named after a German philologist who also collected some fairy tales along with his brother.

ANSWER: **Grimm's** law

[10] A financial consultant under Mary I and Elizabeth I lends his name to this economic law that states that bad money drives out good, meaning that undervalued currency will be disproportionately hoarded.

ANSWER: **Gresham's** law

[10] This law explains that the most commonly occurring word in a language appears twice as frequently as the next most commonly occurring word, three times as frequently as the most commonly occurring word after that, and so on.

ANSWER: **Zipf's** law

10. This work contains portions of the books of Genesis and Matthew as translated by Joseph Smith. For 10 points each:

[10] Name this work which is one of the central texts of Mormonism. It includes the thirteen Articles of Faith, and gets its name from a parable which compares the Kingdom of Heaven to a valuable object.

ANSWER: *The **Pearl of Great Price***

[10] The third section of the *Pearl of Great Price* is this book, which Smith supposedly translated from an ancient text written on papyrus. This book is named for the Biblical patriarch who fathered Isaac and Ishmael.

ANSWER: Book of **Abraham**

[10] According to the Book of Abraham, this star is the greatest of all celestial bodies, since it is the closest to the throne of God. One day here is equivalent to one thousand Earth years.

ANSWER: **Kolob**

11. This figure was contrasted with the *badaud*, which was applied to gawkers or bystanders. For 10 points each:

[10] Give this French term for a stroller who becomes one with his environment, especially with regards to Paris. It was repopularized through the writings of Walter Benjamin, who drew on a passage from a work of Victor Fournel.

ANSWER: **flaneur**

[10] Another important source for Benjamin's analysis of the flaneur was this author, who discussed the role of the flaneur in his book *The Painter of Modern Life*. He also wrote the poems "Benediction" and "The Albatross."

ANSWER: Charles **Baudelaire**

[10] Baudelaire's poems "Benediction" and "The Albatross" appeared in this collection that includes sections named "Spleen and Ideal" and "Parisian Scenes."

ANSWER: *Les **Fleurs du Mal*** [or *The **Flowers of Evil***]

12. This country's brand of fascism denied that Nordic people were superior to Mediterranean ones. For 10 points each:

[10] Name this country where King Victor Emmanuel III appointed Benito Mussolini Prime Minister in 1922.

ANSWER: Kingdom of **Italy**

[10] Mussolini's rise to power was aided by the passage of this 1923 law which stipulated that the party that received the largest percentage of the votes automatically gained a two-thirds majority in the Italian Parliament.

ANSWER: **Acerbo** Law

[10] Mussolini's Italy signed this 1929 treaty with Pope Pius XI's Holy See that established Vatican City as a sovereign state. After World War II, Italy's new democratic government upheld it in the constitution of 1947.

ANSWER: **Lateran** Treaty [or **Lateran** Accords; or **Lateran** Pacts]

13. Shakespeare wrote 154 of this type of poem, and one variety of them is named after Edmund Spenser. For 10 points each:

[10] Name this type of poem with fourteen lines. Edgar Allan Poe wrote one of these "to Science."

ANSWER: **sonnets**

[10] This generically named character from Shakespeare's Sonnets is featured in many of the later poems and is alluded to with the lines "My mistress's eyes are raven black" and "My mistress's eyes are nothing like the sun."

ANSWER: The **Dark Lady**

[10] This man is generally considered to have introduced the sonnet to British literature. When not getting in trouble for a rumored affair with Anne Boleyn, he penned "Whoso List to Hunt" and "Avising the Bright Beams."

ANSWER: Thomas **Wyatt**

14. Samuel Brannan made a fortune during this event. For 10 points each:

[10] Name this event that created boom towns like San Francisco. Some of its participants were nicknamed "forty-niners."

ANSWER: **California Gold Rush** [prompt on "gold rush"]

[10] The initial discovery of gold was made on land owned by this man, who also established a namesake fort near Sacramento around land he dubbed New Helvetia.

ANSWER: John **Sutter** [accept **Sutter's Mill** or **Sutter's Fort**]

[10] The first gold rush in the U.S. took place after a discovery of John Reed in this state during the early 19th Century. William Holden was a Reconstruction era governor of this state, where the Battle of Alamance was fought.

ANSWER: **North Carolina** [prompt on "Carolina," since it's usually called the Carolina Gold Rush]

15. Bodies of water created by this process include kettle lakes and fjords. For 10 points each:

[10] Name this process, which occurs in certain landforms by mechanisms such as plastic flow and basal sliding.

ANSWER: **glacial motion** [or word forms; or obvious equivalents]

[10] Glacial motion causes this process, which includes anything that makes the glacier lose mass. At the equilibrium line, the mass lost via this process is equal to the mass gained via accumulation.

ANSWER: **ablation**

[10] Névé, which turns into firn and then glacial ice under pressure, is an example of this precipitation, which does not accumulate faster than mass is lost in the ablation zone. This type of precipitation falls in flakes.

ANSWER: **snow**

16. Snakes often cause trouble in myth. For 10 points each:

[10] In Greek myth, this half-snake gave birth to a bunch of monsters, fathered by Typhon.

ANSWER: **Echidna**

[10] Jormungandr, the second child of Loki and Angrboda, is also known as the serpent of this realm in Norse myth. It is inhabited by humans.

ANSWER: **Midgard**

[10] In Hindu myth, this naga king agreed to act as the rope needed for the churning of the ocean of milk. His venom contributed to the release of the poison Halahala, which almost destroyed the universe before Shiva swallowed it.

ANSWER: **Vasuki**

17. This effect was first explained in one of Einstein's 1905 *Annus Mirabilis* papers, which would later win him a Nobel Prize. For 10 points each:

[10] Name this phenomenon in which metals exposed to high-energy photons emit electrons.

ANSWER: **photoelectric** effect

[10] According to the photoelectric effect, the incident photon must have energy greater than this quantity in order to cause the metal to release electrons.

ANSWER: **work function**

[10] For a semiconductor, the work function is equal to the vacuum potential minus this quantity. For an intrinsic semiconductor, this quantity lies halfway between the conduction and valence band.

ANSWER: **Fermi level** [or **Fermi energy**; or **E_{sub-F}**]

18. This composer's orchestral works include *Variations on a Theme of Frank Bridge* and *Mont Juic*, which he wrote with Lennox Berkeley. For 10 points each.

[10] Name this British composer of such operas as *The Turn of The Screw* and *Peter Grimes*. His non-operatic works include his *War Requiem*.

ANSWER: Benjamin **Britten**

[10] Britten wrote this work when he was twenty, using themes from his childhood. Its alliteratively-named movements include "Playful Pizzicato" and "Frolicsome Finale."

ANSWER: ***Simple Symphony***

[10] This Britten work, subtitled "Variations and Fugue on a Theme of Purcell," was designed as an introductory and educational piece of classical music.

ANSWER: *The **Young Person's Guide to the Orchestra***

19. This work argues that the idea of God in the author's mind cannot have been placed there by anyone except an infinite and perfect being, namely God. For 10 points each:

[10] Name this philosophical work which also discusses the author's certainty that the internal angles of a triangle sum to 180 degrees.

ANSWER: ***Meditations on First Philosophy*** [or ***Meditationes de prima philosophia***]

[10] In the *Meditations*, Descartes gives an example of this type of argument for God. According to another argument of this type, the greatest conceivable being must exist because existence is more perfect than non-existence.

ANSWER: **ontological** argument

[10] The aforementioned ontological argument was originated by this saint from Canterbury in his *Proslogion*.

ANSWER: Saint **Anselm**

20. In the Massacre of Verden, he butchered over 4,000 Saxons who refused to convert to Christianity. For 10 points each:

[10] Name this son of Pepin the Short who united much of Western Europe as the king of the Franks. After Desiderius tried to seize lands in Italy, he launched a successful campaign against the Lombards.

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

[10] Charlemagne was crowned emperor of a new Roman empire by the third pope of this name on Christmas Day in 800. A different pope of this name attacked Martin Luther in the bull *Exsurge Domine*.

ANSWER: **Leo** [accept **Leo III**; accept **Leo X**]

[10] According to the thesis promulgated by this Belgian historian, the development of trade and the rule of Charlemagne were only made possible in Western Europe because the emerging Arab states cut off trade with the eastern Mediterranean.

ANSWER: Henri **Pirenne** [accept **Pirenne Thesis**]

21. One story in this collection concerns a storytelling stair-sweeper who becomes ostracized from her community, while another tells of a woman who attempts to drive for the first time to the fish market but gets into a car accident. For 10 points each:

[10] Name this short story collection, whose title character is a tour guide who saves a character named Bobby from wild monkeys.

ANSWER: **Interpreter of Maladies**

[10] *Interpreter of Maladies* is a short story collection by Jhumpa Lahiri that focuses on the immigrant experiences of people from this country.

ANSWER: **India**

[10] This Indian author created the fraternal twins Rahel and Estha in *The God of Small Things*.

ANSWER: Arundhati **Roy**