

Tossups

1. In one of this author's poems, the astrologer Horos warns him not to write about history since Apollo forbade him from "thundering" out words in the mad Forum. An angry ghost returns to this author's bed and tells him "Others can have you . . . I alone / Hold: and I grind your manhood bone on bone" in a poem chastising him about his new mistress Chloris. Another of this author's poems tells a woman he is ashamed that his verses have made her famous. He wrote that he was "untouched by love" before a woman trapped him with her eyes in the opening lines of the *Monobiblos*, which brought his attention to his lifelong patron Maecenas. This Augustan poet also wrote the line "absence makes the heart grow fonder." For 10 points, name this Latin author of four books of love elegies to Cynthia, the subject of a "homage" by Ezra Pound.

ANSWER: Sextus **Propertius**

2. These materials were recently introduced as a stationary phase for capillary gas chromatography columns by Supelco, where they retain polar compounds longer than PEG stationary phases. A variant of the Heck reaction uses one of these compounds, BMIM-PF₆, which removed the need for a phosphorus ligand. A group at the University of Leuven employed one of these compounds in the separation of transition metals from rare earths. Their parent compounds are often methylimidazolium or pyridinium. They result from poorly coordinated ions that have structural difficulty forming a crystal lattice. For 10 points, name these substances that exist as a salt in a certain phase of matter at temperatures below the boiling point of water.

ANSWER: **ionic liquids**

3. Along with its southern neighbor, this country is home to marshy flatlands called the Terai. This nation is found to the west of the Siliguri Corridor. Most of the Gandak River is located in this nation, as is the Khumbu Glacier. Near the city of Lukla, one can find the Southern Col, a formation that links Mt. Lhotse to its neighboring peak. Eight rivers, most notably the Bagmati, flow through this nation's capital. Makalu and Annapurna are among the largest mountains in this nation. This nation's Geneva Spur is a rock formation named for Swiss explorers. At Mount Sagarmatha, those wishing to imitate this nation's native Tenzing Norgay congregate at South Base Camp. For 10 points, name this nation partially home to Mount Everest, with capital Kathmandu.

ANSWER: **Nepal**

4. Rex Whitton oversaw much of the implementation of this law. Congressman John Blatnik chaired a committee that investigated corruption in the implementation of this law. The House version of this bill was drafted by Hale Boggs of Louisiana and George Fallon of Maryland, while the rival Senate version was introduced by Al Gore, Sr. An early version of this bill was drafted by the Clay Committee, chaired by General Lucius Clay. This law created a trust fund to cover 90% of costs, with the other 10% being borne by the states, the money being raised by a new four cent tax. The most prominent advocate of this law cited his experience on a 1919 Army caravan, and the need to respond quickly to an invasion. For 10 points, name this 1956 law advocated by Dwight D. Eisenhower, which created a new system of high-speed roads.

ANSWER: **Interstate Highway** Act [or National **Interstate** and Defense **Highways** Act; or **Federal-Aid Highway** Act of 1956]

5. In one paper, this philosopher endorsed a “convergence” variety of scientific realism, which he also divided into materialist and metaphysical varieties. This author of “Three Kinds of Scientific Realism,” rejected what he called the Democritean and the Berkeleyan forms of eliminationism and promoted a “pragmatic pluralism” of ethical discourse in lectures collected as *Ethics Without Ontology*. This thinker attempted to demonstrate that a certain thought experiment is based on a “self-refuting supposition” in the first chapter of his *Reason, Truth, and History*, which opens with a memorable description of an ant tracing a portrait of Churchill in the sand. This philosopher argued that “psychological state does not determine extension” in a paper that aimed to show that its title concept was not “in the head” by positing a world in which water was not H₂O but rather XYZ. For 10 points, identify this American philosopher who postulated a “Twin Earth” in his paper “The Meaning of ‘Meaning’ and argued that we could not be “brains-in-a-vat.”

ANSWER: Hilary **Putnam**

6. A group of characters in this novel go on an expedition to the nonexistent town of Laku. Its protagonist prays for a deus ex machina right before Mr. Baldwin parachutes down from the sky and helps him, and falls in love with Katchen, a German girl who sells him a bag of stones for twenty pounds. Its third section is named for a banquet where its main character, who was possibly based on Bill Deedes, is mistaken for his Uncle Theodore. In its first section, a writer whose lines include “feather-footed through the plashy fen passes the questing vole” travels to Jacksonburg after Mr. Salter misunderstands a command from Lord Copper. This novel depicts the rivalry between *The Daily Brute* and *The Daily Beast*, which sends William Boot to report on the African country of Ishmaelia. For 10 points, name this satire about sensationalist journalism written by Evelyn Waugh.

ANSWER: **Scoop**

7. A peasant dreams of being airlifted an American tractor in this country’s 1953 Cannes submission, *Welcome, Mr. Marshall!* One film from this country opens with the title character being struck by a geometry professor and his mistress and is titled *Death of a Cyclist*. Another film from this nation sees a character killed by a motorist after trying to meet the actress who played Blanche in a production of *A Streetcar Named Desire*. One director from this country included a tableau of the *Last Supper* made up of beggars and thieves in a 1961 Palme d’Or winning film where the title nun is corrupted by her uncle. That same director from this country made *Nazarin*. A more recent film from this country sees the protagonist Ofelia retrieve a key from a giant toad and a dagger from the home of the Pale Man. A short film from this country by the director of *Viridiana* opens with a woman’s eyeball being sliced open. For 10 points, name this country home to directors like Pedro Almodovar and Luis Bunuel.

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

8. Robert Irwin attacked this book’s dismissal of German scholars such as Ignaz Goldziher in *Dangerous Knowledge*. This book’s second chapter analyzes the role of Silvestre de Sacy’s anthologies and Ernst Renan’s philological research in shaping its central discipline. Other sections of this book compare travelogues written by Chateaubriand, Lamartine, and Nerval and discuss the representations of “imaginative geography.” Its last section blasts the “condescension and bad faith” of Bernard Lewis, and uses his writings as examples of the title concept. This book argues that the title concept arose out of the relationship between knowledge and power which occurred when academics accompanied Napoleon’s invasion of Egypt. For 10 points, name this book about the ways the Western world has constructed a false definition of the East, written by Edward Said.

ANSWER: **Orientalism**

9. During fetal development, many of its roles are assumed by alpha-fetoprotein. This protein binds, though with much less specificity, to the same substrates as SHBG. Another protein in its family is Vitamin-D binding protein. In humans, testing for it is a standard element of liver function tests, with a normal range of 3.4 to 5.4 grams per deciliter. Unlike most proteins that share its environment, it is not glycosylated. In the chemotherapy drug Abraxane, this protein is complexed with paclitaxel. In ELISA methods, this protein is commonly used as a blocking agent. The normal functions of this protein are to control the colloid osmotic pressure in its environment and to bind and carry hydrophobic molecules. For 10 points, name this family of globular proteins that are a major constituent of blood plasma.

ANSWER: serum **albumin**

10. Prior to this battle, the two commanders of the defending side united their forces at the village of Sainte-Menehould, thereby cutting off the supply line of the attackers and forcing them to turn around. At this battle, the attacking forces were moving out of the Forest of Argonne, and were led by the Duke of Brunswick. A decisive moment in this battle occurred when General Kellerman, who would later be made duke of this place, raised his hat and yelled “long live the nation!”, a cry that echoed across his lines and was supposedly so intimidating that it prevented a final Prussian attack. The winning side in this battle, led by Charles Dumouriez famously defended their position near an old windmill, and had recently had their numbers bolstered by citizen volunteers. Shortly after this battle, the National Assembly was emboldened to abolish the monarchy and officially proclaim the First Republic. For 10 points, name this 1792 battle from the War of the First Coalition, the first major victory for Revolutionary France.

ANSWER: Battle of **Valmy**

11. This being tells a guest the story of obtaining a magical treasure from a gigantic man and his wife after the couple escaped from an iron room that became white-hot. This person presides over an eighty-year-long feast in Gwales known as the Assembly of the Noble Head. He assembles armies after receiving a specially trained starling carrying a letter about one of three unfortunate slaps. Earlier, he gave away a cauldron, a measure of silver, a gold plate, and numerous horses in recompense for the mutilation of the horses of his brother-in-law, Matholwch. After hearing of his sister's plight, he wades across the sea to Ireland, leading a fleet carrying his half-brother Efnisien and his full brother Manawydan. For 10 points, name this gigantic king of Wales in the *Mabinogion*.

ANSWER: **Bran** the Blessed [or **Bendigeidfran**]

12. This composer wrote a rag subtitled “Cakewalk Smasher” based on a song from the musical *In Dahomey*. He pioneered writing pieces that could be performed by any number or combination of instruments, which he called “elastic scoring.” This composer refused to use Italian tempo markings in his works, and built experimental machines to produce unconstrained “gliding tones” as part of his lifelong quest to create “Free Music.” He composed the movements “Horkstow Grange” and “Rufford Park Poachers” for his piece for concert band, *Lincolnshire Posy*. In his lifetime, he became famous for his arrangements of folk songs such as “Molly on the Shore” and “Shepherd’s Hey.” For 10 points, name this avant-garde Australian composer of “Country Gardens.”

ANSWER: Percy **Grainger**

13. The first known ruler with this name was succeeded by his infant son Aeropus I. One ruler with this name, who was believed to be learning disabled, was born with the name Arrhidaeus and was controlled by his wife, Queen Eurydice II. One ruler of this name destroyed the city of Amfissa, which had illegally cultivated a field belonging to the Delphic Oracle. Another ruler of this name launched an invasion that led to the Peace of Naupactus and saw him weaken the Aetolian League. That ruler with this name would later be defeated by Flamininus, a Roman general. Another ruler of this name defeated the Phocians at the Battle of Crocus Field, signed the Peace of Philocrates with Athens, and was supported by the orator Aeschines, the rival of Demosthenes. For 10 points, give this name shared by several kings of Macedon, most notably the father of Alexander the Great.

ANSWER: **Philip** [or **Philippos**]

14. The ratio of radiation resistance to space impedance for one of these objects is given by two pi over three times the square of its length divided by the wavelength. Given an AC input current, these entities produce a far-field radiation pattern that varies with the sine of the polar angle with a purely poloidal E-field and a purely azimuthal B-field; in the near field, these have a radial electric field that varies with the cosine of the poloidal angle. These systems have ideal effective aperture three over eight pi times wavelength squared, which gives them a directivity and gain of one and a half. Modeled as a length of conductor that is short compared to the wavelength is receives or broadcasts, this type of device was used to confirm Maxwell's hypothesis of electromagnetic waves. For 10 points, name this type of antenna discovered by Heinrich Hertz.

ANSWER: Hertzian **dipole** antenna [accept **Hertzian** antenna before mentioned; prompt on **antenna**]

15. The grandfather of one figure in this painting was a prominent cabinet maker who created the frame for the artist's *The Charterhouse*, painted almost 40 years earlier. Three white ostrich feathers stick out of the black hat of a woman in this work, who also has a black silk band tied around her waist. The animal pictured in this painting also appeared in the artist's portrait of Mrs. Mary Robinson and belonged to the composer, Carl Friedrich Abel. One figure in this "fancy picture" tucks his hand into his jacket in the same manner as the artist's earlier portrait of John Plampin. A white Spitz dog looks up at the central figures of this painting, who lock arms and step in front of an idyllic rustic landscape. The woman in this 1785 painting may be wearing her white wedding dress. For 10 points, name this Thomas Gainsborough portrait of a young couple on a promenade.

ANSWER: *The **Morning Walk*** [or *Portrait of **Mr. and Mrs.** William **Hallett***]

16. Glenda Jackson's first starring role came in Peter Brook's production of this play for the Royal Shakespeare Company, where she controversially used her hair to mimic a weapon. In its second act, the song "Fifteen glorious years" is sung by the chorus of Kokol, Polpoch, Cucurucu, and Rossignol. This play ends with Jacques Roux shouting "When will you learn to take sides?" to a crowd of people whose increasingly chaotic trancelike marching causes Coulmier to draw the curtain. One of its main characters asks "What's the point of a revolution without general copulation?" and explains his individualistic philosophy while being whipped. This play is set in Charenton, an asylum whose patients perform a play-within-a-play written by one of the title characters. For 10 points, name this play by Peter Weiss, in which the author of *Justine* puts on a drama about a man killed by Charlotte Corday.

ANSWER: **Marat/Sade** [or *The **Persecution and Assassination of Jean-Paul Marat As Performed by the Inmates of the Asylum of Charenton Under the Direction of the Marquis de Sade***]

17. Alternate forms of this ritual object include the “kikar” and the “rakik.” Following Passover, there is a tradition that emerged from the Ukraine to engage with a form of this object that is shaped like a key, and which is called the “shlissel” form of it. In order to be “yotzei,” or compliant, with requirements involving it, a follower must surpass a unit known as a “k’zait” and which derives from varying interpretations on the size of objects obtained by the biblical “meraglim,” the spies from Deuteronomy. Prior to usage of this object, one conducts the “netilat yadayim” and says the “ha-motzi” blessing, and afterwards recites “birkat ha’mazon,” with additional blessings if he is with at least two or nine other males. It is notably consumed with honey in the period following Rosh-Hashanah. Some rabbis exempt those with Celiac disease from requirements involving it, while others require usage of gluten-free alternatives. Replaced with Matzah during Passover this is, for 10 points, what Jewish ritual bread?

ANSWER: **Challah**

18. This ruler sent Domiyat on a diplomatic mission to Song dynasty China. Though he ordered the life imprisonment of the scholar Alhazen, this ruler also built a university called the House of Knowledge. The Abbasid Caliph Al-Qadir condemned this man in the “Baghdad Manifesto”, which accused him of being Jewish. This man patronized esoteric Ismaili scholars in his “Sessions of Wisdom”, which led to him being declared a god by early members of the Druze religion. His reign ended when he disappeared during a mysterious late night donkey ride. This man’s belief that the Miracle of the Holy Fire was a fraud led him to infamously order the destruction of the Church of the Holy Sepulcher in Jerusalem in 1009, traditionally considered a major prelude to the Crusades. For 10 points, name this Fatamid Caliph whose erratic behavior earned him the nickname “the mad”.

ANSWER: **Hakim** the Mad or Mad Caliph **Hakim** [or Al-**Hakim** bi-Amr Allah]

19. One strategy for accomplishing this goal is copy propagation, which is used in a form of it called speculative motion. One advanced technique for doing this uses the so-called polyhedron model. Previous data is used in the feedback-directed form of it. Small-scale forms of this process are called peephole techniques and include strength reduction. Some techniques for doing this perform transformations like blocking and tiling in order to change memory locality; other ways to do this include constant folding. This process is done at the most rigorous level when the O3 flag is passed to gcc. Loop unrolling is a technique for doing this that can be performed by a compiler. Many ways to accomplish this make changes to take greater advantage of pipelining. For 10 points, name these techniques that make compiled programs faster.

ANSWER: **optimization** of computer programs [accept anything like **improving** the **runtime** of a program or algorithm until the end]

20. A character in this collection loses a leg, an arm, four fingers, and an eye, and decides to use those injuries to become a politician nicknamed “Timbertoes.” Another of its characters repeatedly heckles a speech given by Increase D. O’Phace. This collection mocks a hypocritical “Pious Editor’s Creed,” and was later expanded to include its author’s poem “The Courtin’” in its second series. Its characters include the pastor of the First Church of Jaalam, as well as a soldier who complains that “ninepence a day” is “kind of low for murder” while serving under Caleb Cushing. This collection is framed as a series of poems sent to Homer Wilbur, and uses letters from Birdofredum Sawin to attack the Mexican War. For 10 points, identify this collection of New England dialect poems named for the farmer Hosea, written by James Russell Lowell.

ANSWER: *The **Biglow Papers***

Bonuses

1. Each of these can be built up from products of transpositions. The subgroup of one containing only even transpositions is known as an alternating group. For 10 points each:

[10] Name this mathematical group, the action of whose elements changes the order of objects in the set over which it acts.

ANSWER: a **permutation group** [or **symmetric group**; prompt on **S**]

[10] A group has this property if and only if, for each element, it has a nested sequence of normal subgroups whose pairwise quotients are Abelian and whose final member is a that element. The symmetric group of order 5 is the lowest-order permutation group to lack this property.

ANSWER: **solvable** [accept word forms like **solvability**]

[10] Because S-five is not solvable, the quintic equation cannot be solved by radicals, as can be shown by this theory. The namesake group of this theory encodes the symmetries of a polynomial and is the symmetric group in the irreducible order of the polynomial.

ANSWER: **Galois theory**

2. According to tradition, Yu the Great, founder of the Xia Dynasty, came to power after he built these structures to control a flood. For 10 points each:

[10] Name this type of structure, one of which was built by King Necho in Ancient Egypt, where they were likely used to connect stone quarries to the Nile.

ANSWER: **canals** [or **ditches**]

[10] You can read about the beginning of China's Grand Canal in the work of this Han-era historian, who authored the *Records of the Grand Historian*.

ANSWER: **Sima Qian** [prompt on **Sima**]

[10] In the first millennium AD, this decentralized civilization built many canals along the coast of Peru. They are known for their realistic ceramic art and gold masks. They are associated with the city of Sipan.

ANSWER: **Moche** culture

3. For 10 points each, name these American short story collections.

[10] The drugged out hospital nurse Georgie randomly rips out a knife stuck in a patient's eye in the story "Emergency" from this collection by Denis Johnson. It centers on the hallucinatory exploits of a junkie called "Fuckhead."

ANSWER: **Jesus' Son**

[10] Stories such as "Godliness," "The Untold Lie," and "Hands" appear in this collection by Sherwood Anderson about the inhabitants of the title small town.

ANSWER: **Winesburg, Ohio**

[10] This collection by Kurt Vonnegut was originally published in 1968, and includes stories such as "The Kid Nobody Could Handle" and "Harrison Bergeron." In its title story, Billy the Poet kidnaps and deflowers Nancy, a hostess at an Ethical Suicide Parlor in Hyannis, after the drugs that numb her sexual desire wear off..

ANSWER: **Welcome to the Monkey House**

4. One aspect of this triune deity is known as Olofi and acts as a conduit to Ayé, the name for our world in the myth system whose heaven this god rules. For 10 points each:

[10] Name this deity, manifest in an energy known as Ashé and as the Sun. He is named for the realm he rules.

ANSWER: **Olorun** [or **Olodumare**]

[10] Olorun is the unknowable godhead in this African myth system. The cultural group that created it is prominent in Southwestern Nigeria.

ANSWER: **Yoruba** myth

[10] Olorun's aspect as Olodumare has this role in the Yoruba mythos, like the Gnostic demiurge, who is named for this activity.

ANSWER: **creator** of the world [accept synonyms]

5. For 10 points each, name these pianists.

[10] Francois Girard directed "thirty-two short films" about this Canadian pianist, known for his love of Bach and his acclaimed recording of *The Well-Tempered Clavier*.

ANSWER: Glenn **Gould**

[10] A competition named for this pianist takes place every four years in Fort Worth. This American gained fame by winning the first international Tchaikovsky competition in 1958 during the height of the Cold War.

ANSWER: Van **Cliburn**

[10] This Soviet pianist was pressured into performing at Stalin's funeral, and recorded *Pictures at an Exhibition* in his legendary 1958 recital in Sofia. He was a good friend of Prokofiev, and premiered Prokofiev's seventh piano sonata.

ANSWER: Sviatoslav **Richter**

6. Identify the following about works in the recently opened Crystal Bridges Museum of Art, for 10 points each.

[10] The museum's patron, Alice Walton, controversially bought this Asher Durand masterpiece from the New York Public Library. Thomas Cole and William Cullen Bryant stand on a cliff in this painting.

ANSWER: **Kindred Spirits**

[10] Eyeball-esque figures abound in this artist's *Composition (Still Life)*, now owned by the museum. This teacher of Mark Rothko painted a portrait of Willem de Kooning titled *Portrait of Master Bill*.

ANSWER: Arshile **Gorky** [or Vosdanig Manoug **Atoian**]

[10] An open door separates Robert Louis Stevenson from his wife, who sits reclining on a chair, in a portrait in Crystal Bridges by this artist. He painted Frederick Law Olmsted holding a walking stick in the woods and a seated John D. Rockefeller.

ANSWER: John Singer **Sargent**

7. This ceremony must be preceded by a *ghusl*, or ceremonial full body washing, and the person at the center of the ceremony must be wrapped in a kafan, or plain white cloth. For 10 points each:

[10] Name this ceremony, which in Islam as in Judaism must be done quickly.

ANSWER: **burials** [or **funerals**]

[10] In Islam, this prayer for the dead uttered at a funeral. According to tradition, all Muslims everywhere will be held accountable if this prayer is not said by at least one person for each deceased Muslim.

ANSWER: Salat al-**Janazah**

[10] Prior to reciting the Janazah, as prior to reciting any formal prayer, Muslims must undertake the partial cleansing ritual of Wudu, which ends with washing this part of the body. Catholics wash this part of the body on Holy Thursday.

ANSWER: **feet**

8. In the third act of this play, Wendla dies from a botched abortion after telling her mother that she's pregnant. For 10 points each:

[10] Name this tragedy by Frank Wedekind about the dangers of Germany's repressive attitudes towards sexuality. It focuses on adolescents like Moritz, whose guilt about his sexual fantasies leads him to commit suicide, and Melchior, who is expelled from school for writing a pamphlet about sex.

ANSWER: Spring Awakening [or Spring's Awakening; or The Awakening of Spring; or Fruhlings Erwachen]

[10] *Spring Awakening* was premiered in 1906 at this director's Deutsches Theatre. He established the Salzburg festival along with Richard Strauss and Hugo von Hoffmansthal, and his expressionist lighting and stage direction inspired filmmakers such as F. W. Murnau.

ANSWER: Max Reinhardt [or Max Goldmann]

[10] One of Max Reinhardt's first successes was his 1905 staging of this Shakespeare comedy, which ends with a performance of *Pyramus and Thisbe* and includes a scene in which Titania falls in love with an ass.

ANSWER: A Midsummer Night's Dream

9. *Zadok the Priest* was written for this ruler's coronation. For 10 points each:

[10] Name this Hanoverian king, who at the Battle of Dettingen became the last English monarch to lead an army into battle.

ANSWER: George II

[10] This son of George II, who was Prince of Wales from 1729 to 1751, hated his father and openly campaigned for opposition candidates to Parliament. He was the father of George III.

ANSWER: Frederick Louis

[10] For most of his reign, George II dealt with Sir Robert Walpole as Prime Minister, despite a strong desire to replace him with this man. Finally, in 1742 George made this man the second Prime Minister in British history.

ANSWER: Sir Spencer Compton or Lord Wilmington

10. This law states that the asymptotic transition probability scales as the square modulus of the integral over all space of the conjugate of the final wave function, times the perturbing Hamiltonian acting on the initial wave function. For 10 points each:

[10] Give this rule, whose first-order constant of proportionality is the final state density, times two pi over h-bar.

ANSWER: the Fermi golden rule

[10] The reciprocal of the quantity calculated in the Fermi golden rule is known as the relaxation time. The negative exponential of this variable times the quantity calculated in the Fermi golden rule roughly gives the probability that a state has undergone the corresponding decay.

ANSWER: time [prompt on t]

[10] For the Fermi golden rule to apply, the perturbing Hamiltonian must be either constant, or have this behavior with time.

ANSWER: oscillating [or harmonic]

11. In this album's final track, "Psalm," a saxophone wordlessly sets the text of a poem which ends "Thank you God. Amen." For 10 points each:

[10] Name this album recorded in 1964 by John Coltrane, who repeats the title phrase in its first track, "Acknowledgement." It expresses Coltrane's religious faith after his years of drug addiction.

ANSWER: A **Love Supreme**

[10] This jazz pianist recorded *A Love Supreme* along with Elvin Jones and Jimmy Garrison, the other members of Coltrane's "classic quartet." In the 1970s, he recorded albums such as *Sahara* and *Enlightenment*.

ANSWER: McCoy **Tyner**

[10] Coltrane also composed this slow jazz standard, whose outer sections consists of sustained chords over an E flat pedal tone. Coltrane named this ballad for his first wife, and recorded it for his album *Giant Steps*.

ANSWER: "**Naima**"

12. This theory was later extended by Rudy Marcus. For 10 points each:

Name this method of calculating reaction rates for unimolecular reactions in terms of the number of ways to distribute energy among the internal degrees of freedom in the reactant molecule.

ANSWER: **RRKM** theory [or **Rice-Ramsperger-Kassel**-Marcus theory]

[10] Unimolecular dissociation reactions were among the first areas of study in this field pioneered by Ahmed Zewail that uses lasers to study reactions on ultrashort timescales.

ANSWER: **femtochemistry**

[10] This central technique of femtochemistry uses two pulses from a laser: the first to provide excitation energy and the second to interrogate the reaction.

ANSWER: **pump-probe** spectroscopy [or **transient-absorption** spectroscopy or **flash** spectroscopy]

13. This book analyzes Derrida's interpretation of Rousseau in an essay about the "rhetoric" of the first title concept. For 10 points each:

[10] Name this essay collection, which analyzes the gap between literary critics' theories and their actual writings, and claims that every reading is really a misreading whose critical power comes from what it neglects.

ANSWER: **Blindness and Insight**

[10] *Blindness and Insight* was written by this Belgian-born literary critic, a longtime professor at Yale whose other works include "The Resistance to Theory" and *Allegories of Reading*.

ANSWER: Paul **de Man**

[10] Paul de Man and Jacques Derrida were both proponents of this school of literary criticism, which holds that language is inherently arbitrary and attempts to show how texts subvert their meanings.

ANSWER: **deconstructionism** [accept word forms that include "deconstruction"]

14. It's the late 1600's, and you are taking a stroll across Eastern Europe. Answer the following about types of noblemen you may encounter, for 10 points each:

[10] As you start off in Prussia, you see vast swaths of underperforming farmland managed by this Prussian aristocracy. A few decades from now, they will start growing potatoes and form the officer corps of Frederick the Great's army.

ANSWER: **Junkers**

[10] In Poland, you encounter members of this noble class: they have the power to elect Polish kings, and the liberum veto lets any one of them block a major initiative in the Sejm.

ANSWER: **Szlachta** [shlak-ta]

[10] As you wander into Ottoman territory, you are arrested and brought before a beylerbey, who governs this kind of polity, usually translated as "province". The Ottoman Empire was divided into these subdivisions until the 19th century, when they were reorganized into vilayets.

ANSWER: **eyalet**

15. In answering a question posed by the title of one essay in this collection, its author claimed that “orthodoxy refers exclusively to method.” For 10 points each:

[10] Identify this collection of philosophical essays which includes “What is Orthodox Marxism?” as well as “Critical Observations on Rosa Luxemburg’s ‘Critique of the Russian Revolution.’”

ANSWER: **History and Class Consciousness** [or **Geschichte und Klassenbewußtsein: Studien über marxistische Dialektik**]

[10] *History and Class Consciousness* is the most famous work of this Hungarian Marxist, whose literary philosophy is found in his *The Theory of the Novel*.

ANSWER: Georgy **Lukacs**

[10] Lukacs’ application of philosophy to literature also led him to conclude Franz Kafka was an inferior author to this man, whose work Lukacs praised for being “rooted firmly in a particular social and historical situation.” That work includes novellas like *Tonio Kroger* and larger works like *Buddenbrooks*.

ANSWER: Thomas **Mann**

16. They have a separate genome, but 95 percent of their proteins are coded for by genes in the nucleus.

For 10 points each:

[10] Name these cellular organelles specialized for photosynthesis.

ANSWER: **chloroplasts**

[10] The light-dependent reactions of photosynthesis occur in these membrane bodies that are arranged in stacks called grana.

ANSWER: **thylakoids**

[10] The site of the reactions in the Calvin cycle and the location of the chloroplast, this is the fluid inside the chloroplast that surrounds the thylakoids.

ANSWER: **stroma**

17. This organization in its current form was created by the 1999 Sirte Declaration. For 10 points each:

[10] Name this international organization, currently conducting peacekeeping missions in such places as Darfur and Somalia.

ANSWER: **African Union** [or **AU**]

[10] In 2008, the African Union conducted a successful invasion of this island nation to overthrow Colonel Mohamad Bacar, who had refused to step down after losing an election. This former French colony has its capital at the city of Moroni.

ANSWER: **Comoros**

[10] Under the terms of this agreement, named for a west African capital city, the African Union will enter a monetary union and adopt a single currency, often termed the “afro”, by 2028. However, Lesotho is attempting to delay this until 2031.

ANSWER: **Abuja** Treaty

18. This author's theory of "gyres" inspired his esoteric book *A Vision*. For 10 points each:

[10] Name this Irish poet, who wrote that "a terrible beauty is born" in his poem "Easter 1916," and proclaimed "That is no country for old men" in "Sailing to Byzantium."

ANSWER: William Butler **Yeats**

[10] Yeats was passionately in love with this fellow Irish nationalist, and addressed her in poems such as "When You Are Old." However, she rejected all four of his marriage proposals, and married John MacBride instead.

ANSWER: Maud **Gonne** MacBride

[10] The speaker of this Yeats poem discusses the difficulty of writing poetry with two women, who are probably Maud Gonne and her sister Kathleen. In its final stanza, everyone falls silent and the speaker laments that he's grown "as weary-hearted" as the hollow moon.

ANSWER: "**Adam's Curse**"

19. This sociologist wrote a study about Agnes, who tricked him into believing that she was "intersexed" instead of transgendered. For 10 points each:

[10] Name this American sociologist, a symbolic interactionist who pioneered ethnomethodology and attempted to discover unspoken rules of social interaction by performing breaching experiments..

ANSWER: Harold **Garfinkel**

[10] Garfinkel's ethnomethodology helped inspire this theory developed by Michel Callon and Bruno Latour. It holds that scientific progress emerges through systems which connect humans and non-humans alike.

ANSWER: **actor-network** theory [or **ANT**]

[10] Ethnomethodology was also inspired by this Canadian sociologist, who analyzed micro-level social interactions in books such as *Behavior in Public Places* and *The Presentation of Self in Everyday Life*.

ANSWER: Erving **Goffman**

20. Under the terms of this act, the Governor and all 11 members of his cabinet were appointed by the President, while the Resident Commissioner, a non-voting member of Congress, was elected. For 10 points each:

[10] Name this law that set up Puerto Rico's government after the Spanish-American War.

ANSWER: **Foraker** Act [or **Organic Act of 1900**; prompt on "Organic Act"]

[10] Joseph Foraker broke with the Roosevelt Administration after this 1906 scandal, where 167 black soldiers were dishonorably discharged on charges of shooting a white bartender in the namesake Texas city. Foraker unsuccessfully fought for the men to be reinstated, and modern historians generally believe they were framed by planted evidence.

ANSWER: **Brownsville** Affair

[10] The city of Fort Bend, Texas was home to this violent 1888-89 dispute between two namesake political factions over black suffrage, which saw both sides murder members of the other. Since this was 1880's Texas, the side opposing voting rights won, but their "all-white ballot" system would be struck down by the Supreme Court in 1953.

ANSWER: **Jaybird-Woodpecker** War