**Chicago Open 2016: "An Insatiable Kingpin of International Meme-Laundering"**

**Packet by Unfortunately My Car Also Smells Like Our New Team Name (Sam Braunfeld, Carsten Gehring, Cory Haala, and Joelle Smart)**

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**Tossups**

1. **Reflecting the inability of sources to agree on basic facts like the number of opinions in this case, the database LEXIS completely ignores Henry Baldwin’s opinion. In a filiopietistic biography, William Wetmore, the son of the author of this case’s majority opinion, claimed his father thought it was a “triumph of freedom.” That dumb analysis hinges on how its majority opinion claims an institution is “municipal” and thus “localized,” and ignores how it declares a 1793 act “clearly constitutional...unless prohibited by state legislatures.” This case centered on Margaret (\*)** Morgan and the John Ashmore estate in Maryland. Laws passed in reaction to it were struck down in later cases like *Ableman v. Booth*. Joseph Story wrote this case’s majority opinion, which led to the passing of many “personal liberty laws.” For 10 points, what 1842 Supreme Court case voided the conviction of a slave catcher?  
ANSWER: ***Prigg*** *v. Pennsylvania* [or *Pennsylvania v.* ***Prigg***]

2. **A young one of these animals points at book open to a page with four "A's" on it in a print satirizing education, and another tends to a sick man in *What will he die from?* One of these animals wears human clothes and holds a book open to images of his ancestors in the etching, *As far back as his grandfather*. Two thieves fight each other in the foreground as a third steals one of these animals in an Honore Daumier painting based on a Jean de La Fontaine fable. These animals appear in the 37th to 42nd of (\*)** Francisco Goya's *Los Caprichos*. Vincent Van Gogh painted a beardless self-portrait of himself being lifted onto one of these animals in a Biblical painting inspired by Delacroix. The title figure rides one of these animals below a sign reading “Vive La Sociale” in a painting by James Ensor. For 10 points, name this animal on which Christ rides in *Christ's Entry into Brussels*.  
ANSWER: **donkey**s [or **ass**es]

3. **In one novel in this genre, a character is forced by an enemy to transcribe a text onboard a ship, but writes some verses of it in reverse, to make its teachings less effective. One character in this genre aids regent Sophia of Russia in over-throwing her half brother, while working for both political factions in his home country. While escaping from bullies, a character in this genre meets the leader of the Ancient Tomb Sect, who becomes his teacher and lover. In a novel in this genre, the title swords contain two halves of a metal-plated map detailing the location of a fictional military strategy** (\*) manual, called the *Book of Wumu*. In a book in this genre, the Green Destiny sword is stolen by the governor’s daughter Yu Jiao Ling. *The Deer and the Cauldron* and the *Condor Trilogy* by Jin Yong belong to this genre. For 10 points, Wang Du Lu’s *Crane Iron* pentalogy, including *Crouching Tiger Hidden Dragon,* belongs to what genre of Chinese martial arts novels?  
ANSWER: ***wuxia***[prompt on “martial arts literature/novel”]

4. **Acidocalcisomes and GPI anchors were discovered in a member of this genus. Organisms of this genus have** **mtDNA packaged into minicircles and maxicircles and anchored by the tripartite attachment complex. Transcription in this eukaryotic genus is polycistronic and is followed by *trans*-splicing. The consensus VGS promoter is native to these organisms. The nuclear dye DAPI was discovered in a failed attempt to target this genus. Cattle infected by members of this genus are treated with ethidium bromide. Infection by it is diagnosed by a** (\*) card agglutination test. In the blood, these organisms undergo spontaneous antigen switching for surface glycoproteins. The *cruzi* and *brucei* species of these parasitic kinetoplastids are transmitted by the assassin bug and by the tsetse fly respectively. For 10 points, name this genus of protazoans that cause and also lend their name to African sleeping sickness.  
ANSWER: **trypanosome**s [or ***Trypanosoma***]

5. **Saint Martin of Braga altered Canon 10 of the Council of Ancyra to codify this practice in a Greek-to-Latin translation sent to Bishop Nitigisius of Lugo. This practice was campaigned *against* for decades by a Minnesotan named Terry Dosh, who died of Parkinson's disease in 2016. An early decretal sent to Bishop Himerius of Terragona from Pope Siricius endorsed this practice. Lines in First Corinthians 7 comparing a man "anxious about the affairs of the Lord" and a man "anxious about the affairs of this world" are often cited to justify this practice. Prior to his last encyclical on** (\*) birth control, Pope Paul VI wrote his second-to-last encyclical defending this practice. The Scottish last name MacTaggart literally refers to a result of violating this practice. For 10 points, identify this restriction which only applies *after* ordination in Eastern Orthodoxy, but is lifelong for Catholic clergy.  
ANSWER: Catholic **clerical celibacy** [or **sacerdotal celibacy**; or **priestly continence**; or **clerical abstinence**; accept any answer indicating that **clergy** and/or **priest**s are forbidden from having **sex** and/or getting **married**; do NOT accept or prompt on answers mentioning "chastity"][McTaggart means "priest's son".]

6. **A temporary one of these structures built for Henrietta Maria's sake is described in the *Florimène* plan. A lot of devices used in these structures were destroyed by Gaspare Vigarani out of professional envy, though drawings of them were reproduced in Diderot's *Encyclopedie.* A man dubbed "the Great Sorcerer," Giacomo Torelli, developed a way for one person to manipulate this sort of thing via grooves and trolleys in the chariot-and-pole method. Rotating triangular prisms called** (\*) *periaktoi* can be used as part of these structures. Nicola Sabbatini developed the "wing and groove" method for decorating these things, and vanishing-point perspective was first used in them by Sebastiano Serlio. In Elizabethan times, a painted ceiling called the "heavens" covered these areas, which "groundlings" paid a penny to view. For 10 points, name these structures often separated by a proscenium arch from a viewing audience.  
ANSWER: theatrical **stage**s [or stage **set**s; or stage **setting**s; or stage **scene**ry; or stage **backdrop**s; accept answers mentioning "opera" or "operatic" in addition to the above; prompt on theaters]

7. **Phosphoric acid is used in a version of the Swern oxidation which uses this compound, not oxalyl chloride, as the electrophile. Either this compound or an ethane-di-methyl-amino-propane analog is used to make NHS linkers. Chloranil and ninhydrin are used in colorimetric assays for the progress of a reaction that’s activated by this solid compound. Subunit c of ATP synthase is named for its affinity for this compound, which inhibits proton translocation *in vivo*. Hydroxyl-benzo-triazole captures the O-linked urea analog that forms when this (\*)** 13-carbon compound reacts with an Fmoc-protected amine. A mix of DMAP and this compound activates carboxylic acids for nucleophilic attack by alcohols under milder conditions than the Fischer esterification. For 10 points, name this compound with an RNCNR group, where the Rs are cyclohexane rings, which is used in the coupling step of peptide synthesis.  
ANSWER: **DCC** [or **dicyclohexylcarbodiimide**]

8. **This work satirically imagines a madman who attempts to prove that he is sane by inserting a lawn bowling ball into his coat-tail and shouting “Bang! The earth is round” every time it hits him in the ass. This work contrasts two forms of religion, labeled Religion A and Religion B, the latter of which presents a paradox of God manifesting “in time” that can be resolved only through a “break with the understanding.” In its appendix, the author mentions the Catholic practice of including an *imprimatur* at the end of books, and then notoriously suggests that he too** (\*) “revokes” the contents of this entire book. Because “objective thinking” ignores the fact that a subject is doing the thinking, this work declares that “subjectivity is truth.” Like the work it was meant to supplement, it was written under the pseudonym Johannes Climacus. For 10 points, name this sequel of sorts to his *Philosophical Fragments* by Søren Kierkegaard.  
ANSWER: ***Concluding Unscientific Postscript*** *to Philosophical Fragments: A Mimical-Pathetical-Dialectical Compilation, An Existential Contribution* [or ***Afsluttende uvidenskabelig Efterskrift*** *til de philosophiske Smuler. Mimisk-pathetisk-dialektisk Sammenskrift, Existentielt Indlæg*]

9. **Two characters in this novel frequently discuss a novel about colonial Africa that they are both reading, whose heroine is compared to the wife of one of those characters in her intolerance of the climate. One character mulls over the phrase “Forgive me, again, for being such a bad mechanic,” which one character says after claiming to have had engine trouble with his new sedan when he went to the port with another character. A stain is left on the dining room wall after one of the characters uses his napkin to crush a Scutigera** (\*) centipede, in a scene that recurs throughout this novel. The original French title of this novel puns on the windows of the plantation on which it is set, and the emotions of the unnamed narrator, who repeatedly runs through the same events. For 10 points, name this novel in which the narrator believes his wife A... and his neighbor Franck are having an affair, a *nouveau roman* by Alain Robbe-Grillet.  
ANSWER: ***Jealousy*** [or *La* ***Jalousie***]

10. **Foolish investments in a water supply and drainage company in this country nearly bankrupted the English bank Baring Brothers. This country constructed a widely mocked series of trenches named for War Minister Adolfo Alsina, which failed to prevent raids. The Popular Restorer Society was a security agency here with a nickname possibly referring to its use of corncobs for rectal torture. With its western neighbor, this country signed the Pacts of May, which ordered both nations to sell off their newly built (\*)** European warships. The Mazorca police brutalized this country’s population. Numerous indigenous peoples were slaughtered by its general and future president Julio Roca, who, like its western neighbor, targeted the Mapuche. For 10 points, what South American country carried out the 1878 Conquest of the Desert to block Chile from settling Patagonia?  
ANSWER: **Argentina** [or **Argentine** Republic]

11. **This director used the image of a child hugging a toy dinosaur to conclude a film about the Soviet director of *Happiness*. One of his films cuts from the intertext of “fire” from *Battleship Potemkin* to a shot of people making the peace sign for its section “The Fragile Hands”. With Ghislain Cloquet and Alain Resnais, this director of *The Last Bolshevik* won the Prix Jean Vigo for a film about colonialism’s effect on African sculpture, *Statues Also Die*. A scene set in a “museum filled with ageless animals” appears in a film by this director, in which a long series of dissolves precedes a shot of a woman (\*)** opening her eyes in bed. He made a movie in which a woman reads letters as a voice-over with footage of Guinea-Bissau and Japan. This director made a film almost entirely from stills about a man sent back in time to the Paris of his childhood after the nuclear World War III. For 10 points, name this French director of *Sans Soleil* and *La Jetée*.  
ANSWER: Chris **Marker**

12. **This person’s husband may have been the intended subject of a poem that says the husband’s “lair savoureth somewhat of a Kappurs stable.” Another poem likely about this person describes how the poet “fled the fire that me brent by sea, by land, by water, and by wind,” but that he now follows this person, “the coals that be quent, from Dover to Calais, against my mind.” In another poem, this person is described as having “set my wealth in such a roar.” That poem contrasts this person, called Brunet, with Phyllis, likely a reference to Elizabeth** (\*) Darrell. This person may have been directly referenced in a line of a poem describing “a net” used “to hold the wind.” An animal used to represent this person is described as having a neck “graven with diamonds” and bears the message “Noli me tangere, for Caesar’s I am.” For 10 points, name this subject of “Whoso List to Hunt” and other poems by the infatuated Thomas Wyatt.  
ANSWER: **A**nne **Boleyn** [prompt on “Brunet” before mentioned]

13. **This genre was the subject of Susan McClary’s chapter in *Ritual, Routine, and Regime*, which includes an analysis of Monteverdi’s madrigal “Zefiro torna.” Heinrich Biber’s fourth Rosary Sonata, depicting “The Presentation of Jesus in the Temple,” is one of these pieces. One of these pieces concludes *Le Labyrinthe* by Marin Marais. Benjamin Britten made an arrangement for string orchestra of a Henry Purcell piece of this type in G minor. A G-major piece of this type by** (\*) Handel includes 21 variations on the theme. One of these pieces opens Holst’s *Suite No. 1 in E-flat for Military Band*. One of these titled “Body Through Which the Dream Flows” is the second movement of John Adams’ Violin Concerto. J.S. Bach’s longest movement for unaccompanied violin is in this genre, and is the final movement of his *Partita No. 2 in D minor* for that instrument. For 10 points, name this slow dance in triple time with a descending bass, a relative of the passacaglia.  
ANSWER: **chaconne** [or **chacony**; or **ciaconna**]

14. **After the murder of a man with this noble title, the scholar Jean Petit defended the action by praising tyrannicides. Isabeau of Bavaria was accused of an affair with a man with this title, who was hacked to death while mounting his horse by a group led by Raoulet d’Anquentonville. It’s not “king,” but a man with this title oafishly used a torch to accidentally set on fire costumed men soaked in wax at the *Bal des Ardents*. After John the Fearless killed a man who held this title, the (\*)** Armagnac-Burgundian Civil War began. This title was created for Philip of Valois and it was held by the brother of Charles the Mad, Louis I. A man with this title, the father of a future king, changed his surname to “Égalité,” but was guillotined anyway in the Reign of Terror. For 10 points, what noble title was held by the man who became king in the July Revolution, Louis Philippe?  
ANSWER: **Duke** of **Orleans** [prompt on regent]

15. **The growth of this thing, as defined in Ikijuro Nonaka's SECI model, is often illustrated using a "spiral" out from the center of an xy-graph. Sociologist Michael Gibbons distinguished "Mode 1" and "Mode 2" forms of its production. A book by Max Scheler was the first to tackle *Problems in the Sociology of* it. Jonathan Lomas has written that "brokers" for this thing could improve health research. A 1929 German book claims that all of the "historical" type of it is also "relational," which helps social scientists create a "dynamic synthesis" of** (\*)ideologies. Michael Polanyi distinguished "explicit" and "tacit" forms of this thing, and Clifford Geertz wrote a 1983 book on the *Local* kind of it. Karl Mannheim's *Ideology and Utopia* proposed a "sociology of," for 10 points, what type of mental content, which disciples of Michel Foucault more or less equate with power?  
ANSWER: **knowledge**

16. **One test for whether a system is of this type is if all movable singularities are poles. Given one of these systems, the Zakharov-Shabat construction finds operators L and M such that the time derivative of L equals the commutator of L and M, implying the spectrum of L is conserved. The Gelfand-Levitan-Marchenko equation can be used to solve those Lax equations in L and M for these systems via inverse scattering, giving rise to soliton solutions. The deformation of phase space under small (\*)** perturbations to these systems is limited by the Kolmogorov-Arnold-Moser theorem. In these systems, compact level sets of the invariants form tori, which locally have action-angle coordinates. Since the KdV equations have infinitely many symmetries, they describe this type of system. For 10 points, name these systems in which several independent conserved quantities allow for a closed-form solution.  
ANSWER: **integrable** systems [accept **Liouville integrable**, **completely integrable**, or **exactly solvable**, prompt on solvable]

17. **An unfortunate member of this family, Ercole, died in 1651 after accidentally being shot by a guard who was showing him how a gun worked. A female member of this family scandalously lived with her lover, a former thief known as the “Cane.” A more recent member of it had affairs with a California woman and a Togo-born flight attendant which produced the illegitimate children Jazmin and Alexandre. The Hotel Matignon, the Prime Minister’s residence in Paris, is named for a man who married into this family. Honore II of this family signed the treaty of (\*)** Peronne, regulating relations with Louis XIII. Apocryphally, this house’s attempt to control its country began in 1297 when Francesco “the Cunning” posed as a monk and captured the “Rock.” Albert II, the current head of this European dynasty, is the son of actress Grace Kelly. For 10 points, what is the ruling house of Monaco?  
ANSWER: House of **Grimaldi**

18. **These things burn “like Satanic blue flames” when lit up by corpusants. These things are hypothesized to be the result of escaping the Thirty Years’ War with just a “sticking-plaster shirt.” They comprise “an interminable, Cretan labyrinth of a figure” and represent a “complete theory of the heavens and the earth” created by a prophet from their owner’s home. One of these things is printed as the signature of a man said to be a regular member of Deacon Deuteronomy’s meeting. They are compared to the Zodiac signs adorning a doubloon, and they belong to a man who was once accidentally called** (\*) “Hedgehog” by Peleg. Their checkerboard pattern is compared to that of a bedspread in the chapter “The Counterpane.” They are first observed in a room of The Spouter Inn during a scene in which their owner pulls out a tomahawk pipe and stuffs a shrunken head into a bag. For 10 points, name these works of body art decorating the skin of Ishmael’s South Sea islander harpooner companion.  
ANSWER: **Queequeg’s tattoos**

19. **This thinker alluded to the Orphic creation myth of Eros emerging from an egg in claiming that all people are instruments of a "cosmogonic 'love'". Karl Kerenyi co-authored *Essays on a Science of Mythology* with this man, whose ideas which were applied to the study of fairy tales by Marie-Louise von Franz. This man's work often discusses the motif of the *puer aeternus*, an eternally-young boy god. Visions of a winged old man named Philemon came to this mythographer, who equated figures such as Isis and Helen of Troy with a** (\*) Gnostic personification of wisdom called Sophia. This man wrote that Satan is an allegory for "individuation" of the Self, a process which requires engaging with "the shadow" inside one's mind. For 10 points, name this Swiss author of *Answer to Job*, who treated myths as "psychic phenomena" arising from archetypes in the collective unconscious.  
ANSWER: Carl Gustav **Jung**

20. **A finite group G is generated through the pseudo form of this operation if and only if the ring of invariants of G acting on a finite-dimensional vector space form a polynomial ring. For an n-dimensional symmetric bilinear space over a field with characteristic not equal to two, every element of its orthogonal group is a composition of at most n of these operations. For a nonzero vector v in a vector space, a transformation describing this operation applied to x is equal to x minus quantity two times inner product of x and v divided by inner product of v with itself, all times v. That transformation is the (\*)** Householder transformation. For the dihedral group D sub n, if n is even, the set of these fall into two conjugacy classes. Matrices describing this operation are orthogonal and have determinant equal to negative one. The composition of an even number of instances of this operation yields a rotation. For 10 points, name this operation which creates mirror images.  
ANSWER: **reflection** [the first theorem is Chevalley-Shephard-Todd; the second is Cartan-Dieudonné]

21. **A *surah* named for this natural phenomenon starts with oaths "by the Ten Nights" and "By the Even and the Odd," and notes that Allah punished the pillar-building 'Aad-Iram people as well as the Thammud. Islamic sources claim that a "false" one of these is akin to the tail of a *sirhan*, a creature whose name is translated as "wolf" or "fox." In Egypt, rituals tied to this natural occurrence are preceded by drum-banging from a volunteer called the *mesaharati.* It's not Friday, but this namesake phenomenon of Surah 89 corresponds to the recitation of two *rak'aat* recited aloud in the** (\*) *Fajr* service. A verse in the Cow *surah* defines it using the visual distinction of white threads from black. The timing of *suhoor* meals is set with respect to, for 10 points, what general time, at which the muezzin's *adhan* contains the extra line "Prayer is better than sleep"?  
ANSWER: **dawn** [or **daybreak**; or the **first** day**light**; accept **fajr** until mention; prompt on morning; prompt on twilight; do NOT accept or prompt on "sunrise," "day," or "night"]

**Bonuses**

1. The PBS documentary *The Split Horn* shows the shamanist beliefs of this ethnicity, whose traditional religion is sometimes called Ua Dab. For 10 points each:  
[10] Name this ethnic group without a country from Southeast Asia. Their rituals conflicted with a Merced hospital's attempts to treat a small child for epilepsy in Anne Fadiman's *The Spirit Catches You and You Fall Down.*  
ANSWER: **Hmong** people [or **Hmong**-Americans; or **Mong**; or **Hmoob**; prompt on Miao]  
[10] A reed pipe called the *qeej* [kheng] plays an ornate song during this ritual among the Hmong, before which family members fold boats out of joss paper. "Sunshine money" helps cover the cost for the many days of this ritual.  
ANSWER: **funeral** [or **burial** ceremony; prompt on mourning]  
[10] After death, the Hmong believe a person's soul wears a copy of this organ before ascending into the sky and being reincarnated, perhaps because in the Hmong language its name is also the word for "jacket".  
ANSWER: **placenta**

2. Answer the following about thinking about what other people think, for 10 points each.  
[10] Simon Baron Cohen argued that this behavioral condition results from "mind-blindness," or a deficiency in theory of mind. This subject of the Andrew Wakefield hoax often involves repetitive motions and social skills deficiencies.  
ANSWER: **autism** [or **autism** spectrum disorder]  
[10] These subunits in the brain exhibit activity *both* when a person moves a certain way *and* when a person observes others moving that same way. As such, their role in empathy is vastly overstated all the damn time.  
ANSWER: **mirror neuron**s  
[10] Frith and Frith used this term in a 1999 paper to describe "our ability to read the mental states of other agents", which they argued is cued by indicators of "communicative intent" such as eye contact.  
ANSWER: **mentalizing** [or **mentalization**]

3. Like other directional information, data from these indicators are frequently plotted on a rose diagram, and can give information about the paleoslope and direction of sediment supply for basins. For 10 points each:  
[10] Name these field features that can either indicate direction of water flow at the time of deposition, such as clast imbrication or flute casts, or only the axis of flow, such as groove casts or symmetric ripple marks.  
ANSWER: **paleocurrent** indicators [or **paleoflow** indicators]  
[10] Aulacogens are sedimentary basins formed from the failed arm of one of these systems, which can form during continental breakup. The remaining arms continue to open and form an ocean basin.  
ANSWER: **triple junction** [or **rift** system]  
[10] Sedimentary basins can also form in the forearc, the area between an ocean trench and the corresponding volcanic arc formed by this process, the sinking of one plate under another.  
ANSWER: **subduction**

4. This person jealously follows on the heels of Jesus and his apostles visiting the city of Ica in “Where and How [this person] Lost His Poncho.” For 10 points each:  
[10] Name this being variously referred to as Cachano, Cucufo, Carrampempe, El Patudo, and Maldito. He exclaims, “By St. Tecla, the patroness of out-of-tune pianos!” when he thinks he’ll get to desanctify a wedding, and during his stay mothers-in-law scratch out sons-in-law’s eyes and townspeople turn into orgiastic winos.  
ANSWER: the **Devil** [accept obvious equivalents, such as **Satan**]   
[10] “Dónde y cómo el diablo perdió el poncho” is found with hundreds of other history- and folklore-based narratives in the *peruanas*, or *Peruvian*, collection by Ricardo Palma in this title genre.  
ANSWER: **tradiciones** [or **traditions**]  
[10] Ricardo Palma served as director of the national one of these institutions in Peru. A Borges story is titled for one of these institutions, made up of an endless series of hexagonal rooms.   
ANSWER: **library** [or ***biblioteca***]

5. During real-time PCR, one of these species is placed at the 3’ end of a DNA strand in a TaqMan experiment. For 10 points each:  
[10] Name these species, common examples of which include oxidizing agents like molecular oxygen and acrylamide. The concentration of these species is linearly related to intensity in the Stern-Volmer relationship.  
ANSWER: **quench**ers of fluorescence [or word forms]  
[10] A common lab experiment measures the impact of halide ions on the quenching of this unusual fluorescent compound, which was isolated from the cinchona tree and was used to treat malaria before artemisinin.  
ANSWER: **quinine**  
[10] A very common reporter placed on the 5’ end of a TaqMan experiment is either a DyLight or AlexaFluor tuned to this wavelength, which is the normal excitation wavelength of GFP in the blue region of the spectrum. Any answer within 3 nanometers of the correct value is acceptable.   
ANSWER: **488** nanometers [accept anything between **485** and **491** nanometers]

6. In one work in this genre, Mak’s wife pretends to give birth to a child, which is really a stolen sheep. The sets then change, as the shepherds go to Bethlehem, where they witness the birth of Jesus in a manger. For 10 points each:  
[10] Name this genre of religious plays relating stories of the Bible, distinguished from the similar miracle plays, which re-enact miracles of saints.  
ANSWER: **mystery** plays  
[10] This is the name given to the supposed author of the Second Shepherd’s play and four other plays in the cycle he is named after, itself named after a town. An identifying mark is his use of particular nine or thirteen-line stanzas.  
ANSWER: **Wakefield** Master  
[10] This exchange between angels and the three Marys from the Easter liturgy, embellished to various degrees, was a forerunner of the mystery play and gave rise to the *Visitatio sepulchri*. This trope is denoted by a two-word Latin question angels ask at its start.  
ANSWER: **Quem quaeritis?**

7. Atiyah’s axioms define these theories as functors from cobordisms to vector spaces, and in two dimensions they are equivalent to Frobenius algebras with product and coproduct determined by the pair of pants. For 10 points each:  
[10] Name these theories that include Witten’s Chern-Simons theory, which has been used to compute knot invariants via its correlation functions.  
ANSWER: **topological quantum field theories** [or **TQFT**s]  
[10] In topological quantum field theories, the correlation functions don’t depend on this symmetric bilinear form, which gives the square of the infinitesimal line element when applied to two infinitesimal displacements.  
ANSWER: **metric** tensor [or **g**]  
[10] Chern-Simons provides low-energy effective field theories for the fractional and integer quantum versions of this effect. Its classical form describes a voltage drop across a conductor with a current perpendicular to a magnetic field.  
ANSWER: **Hall** effect

8. This dictator banned the Simon and Garfunkel song “Cecilia” because it offended his mistress, Cecilia Tamanda Kadzamira. For 10 points each:  
[10] Name this leader who maintained a powerful cult of personality despite not actually speaking Chichewa. Shortly after his country became independent, numerous Cabinet ministers resigned or were fired in the Cabinet Crisis of 1964.  
ANSWER: Hastings **Banda**  
[10] Banda was President of this African country for almost 30 years. He changed its name from Nyasaland after seeing a word he liked the sound of on a map.  
ANSWER: Republic of **Malawi**   
[10] This group was effectively the secret police and security agency for Banda. Ironically, considering Banda’s hatred for Communism, this group has the same name as the members of a Soviet organization whose uniform included a red neckerchief and white shirt.  
ANSWER: Malawi **Young Pioneers**

9. In an aria sung by this character, he describes suffering from the feeling of freezing and burning in a way that keeps him up all the time, but in a way that this character nonetheless enjoys. For 10 points each:  
[10] Name this sex-starved young man who develops strong feelings for all women, including his godmother, which he describes in arias such as “Non so più cosa son.”  
ANSWER: **Cherubino**  
[10] Cherubino is so overcome with emotion as he sings “Non so più cosa son” that it comes out as this type of declamatory aria with an Italian name, which is sung breathlessly and rapidly and with little ornamentation.  
ANSWER: aria **parlante** [or aria **agitata**; or aria **strepito**; or aria **infuriata**; or aria **di nota e parole**]  
[10] The lust-struck Cherubino appears in this Mozart opera, in which he is mocked by the title character in the aria “Non più andrai.”   
ANSWER: *The* ***Marriage of Figaro*** [or *Le* ***nozze di Figaro***]

10. This political body was encouraged to give greater rights to the burghers after the Black Procession protests. For 10 points each;  
[10] Name this political body, whose “Great” form lasted from 1788 to 1792 and is best known for passing the historic Constitution of May 3, 1791.  
ANSWER: Great **Sejm** [accept Four-Year **Sejm** and anything with **Sejm** in it; prompt on **parliament of Poland** or equivalents]  
[10] The Great Sejm’s reforms were opposed by the Targowica Confederation, which was supported by this Russian ruler. Grigori Potemkin’s chief of staff wrote the Confederation’s founding act.   
ANSWER: **Catherine II** [or **Catherine the Great**; or **Yekaterina Alexeyevna**]  
[10] The nominal leader of the Targowica Confederation, Stanislaw Potocki, was a member of this pro-Russian, pro-nobility, conservative Polish political party that opposed reforms. It was named for a very high-ranking Polish military title.  
ANSWER: The **Hetman**s’ Party [or the **Magnates’** Party; or the **Muscovite** Party; prompt on **Conservative** Party; prompt on **Old-Nobility** Party]

11. The original example of this property was was the equality of rigid designators “Hesperus” and “Phosphorus,” which is metaphysically certain but epistemically contingent. For 10 points each:  
[10] Name this status of being true in all possible worlds, but knowable only through experience.  
ANSWER: **necessary a posteriori** [or **a posteriori necessity**; prompt on “a posteriori” or “necessity/necessary” alone]  
[10] That example, as well as the very notion of rigid designator itself, originates in *Naming and Necessity* by this Princeton philosopher.  
ANSWER: Saul (Aaron) **Kripke**  
[10] This MIT philosopher, known for his work on the semantics of conditionals, developed a version of two-dimensional semantics to solve the problem of *a posteriori* necessity, by mapping sentences’ propositional concepts onto matrices, whose diagonals express a particular two-dimensional form of necessity.   
ANSWER: Robert **Stalnaker**

12. Werner Meyer-Eppler co-founded a studio dedicated to this sort of music in Cologne. For 10 points each:  
[10] Name this type of music that may feature recordings of acoustic sounds, such as in Pierre Schaeffer’s *musique concrète*, or may generate the sound itself from a machine like the theremin.  
ANSWER: **electronic** music  
[10] This so-called “Father of Electronic Music” employed magnetic tape in his piece *Déserts*, and wrote *Poème Électronique* for the 1958 World’s Fair. But his piece *Ionisation* is for thirteen acoustic percussionists.  
ANSWER: Edgard **Varèse**  
[10] This composer was a founding member of the San Francisco Tape Music Center, and its first director when it moved to Mills. After recording in a cistern with 45-second reverb, she formulated the method of “deep listening.”  
ANSWER: Pauline **Oliveros**

13. The GG strain of the *rhamnosus* species in this genus has been used to treat peanut anaphylaxis and bacterial vaginosis. For 10 points each:  
[10] Name this genus consisting of probiotic rod-shaped bacteria. Along with a streptococcus, a bacterium in this genus is used to make yogurt.  
ANSWER: ***Lactobacillus***  
[10] More recently, a species of *Lactobacillus* has been used to successfully treat patients affected by enterococcal bacterial resistant to this antibiotic, which is used against MRSA and *Clostridium*.  
ANSWER: **vancomycin** [or **vancocin**]  
[10] First-line treatment for MRSA or vancomycin-resistant enterococci is often either teicoplanin or this other antibiotic, which is fluorinated, has an oxazolidinone ring, and unlike the other first-line treatments, can be administered orally.   
ANSWER: **linezolid**

14. Answer the following about everyone's favorite legendary hero of South Slavic epic, the legendary Prince Marko, for 10 points each.  
[10] Along with a saber and a spear, Prince Marko wielded this sort of object. In Mesopotamian myth, Nergal owned one resembling a lion, and an enchanted one named Sharur belonged to Ninurta.  
ANSWER: **mace** [or **pernach**]  
[10] In some tellings, Prince Marko entered this status condition and type of place instead of dying. This same status and type of locale may also affect Finn mac Cool and Frederick Barbarossa until their country's hour of need.  
ANSWER: **sleep**ing in a **cave** [or **sleep**ing in/within/under a **mountain**; or **sleep**ing under**ground**; prompt on partial answers]  
[10] In various legends, Marko was born to or adopted by or breastfed by one of these nature spirits which, unlike rusalkas, aren't limited to water. One named Ravijojla helps Marko defeat the three-hearted Musa Kesedžija.  
ANSWER: **vila** [or **vile**; or **Wili**s; or **veela**s; prompt on fairy or fairies]

15. This author chose his pen name in order to pay homage to Rousseau. For 10 points each:  
[10] Name this German Romantic author of the novels *Hesperus* and *Titan*. Schumann adored this author, and based *Papillons* on his novel *The Awkward Age*.  
ANSWER: Jean **Paul** [or Jean Paul **Richter**]  
[10] Jean Paul's novel *Siebenkas* coined this German term for a lookalike or evil twin. One of them torments the protagonist of Dostoevsky's *The Double*.  
ANSWER: **doppelganger**s  
[10] In this novel by E.T.A. Hoffmann, the monk Medardus is pursued across Europe by a murderous doppelganger. It begins with Medardus being consumed with lust for Aurelie after drinking one of the title objects.  
ANSWER: *The* ***Devil's Elixir*** [or *The* ***Devil's Elixirs***; or *Die* ***Elixiere des Teufels***]

16. This 1517 event turned violent after Dr. Bell made a speech that incited this event, inviting “Englishmen to cherish and defend themselves, and to hurt and grieve aliens for the common weal.” For 10 points each:  
[10] Name this riot, dubbed an “Evil” version of the namesake holiday, in which xenophobic riots led to looting of foreigners’ houses.  
ANSWER: Evil **May Day**  
[10] A sillier 1907 riot involved university students, suffragettes, and police officers clashing in the Brown Dog affair. It was centered on an inflammatory statue of a dog erected to protest lecturer William Bayliss apparently performing *this action* four years earlier.  
ANSWER: **vivisection** of a dog [or performing **surgery** on a **live** animal/dog; prompt on **experimenting** on animals/dogs; prompt on **dissection** of animals]  
[10] Both Evil May Day and the Brown Dog affair occurred in this English city, where anti-Catholic violence led to the Gordon Riots.  
ANSWER: **London**

17. This city is home to four-story apartment complexes whose roofs are color-coded by residents' jobs, such as green roofs for the Ministry of Agriculture employees. For 10 points each:  
[10] Name this planned capital city founded in 2005, which may have been built inland on the advice of an astrologer who feared a U.S. nautical invasion. Almost nobody is ever seen on its super-wide 20-lane highways -- or anywhere within its limits.  
ANSWER: **Naypyidaw** [or **Nay Pyi Taw**]  
[10] Naypyidaw had to have one of these tall Buddhist temples, so Burmese junta leader Than Shwe commissioned the Uppatasanti one to be a foot shorter than, but otherwise an exact copy of, the gilded Shwedagon one.  
ANSWER: **pagoda**s [or Uppatasanti **pagoda**; or Shwedagon **pagoda**]  
[10] Many historic Burmese buildings feature this type of ornate throne. The *Gawdaw* one is thought to have belonged to the Buddha, and the *Thihathana* or "Lion" one was used by the Konbaung dynasty.  
ANSWER: ***palin*** [or ***pallan****ka*]

18. Three cats were catapulted into the path of water 28 times to capture a Philippe Halsman photograph containing and named after this painting. For 10 points each:  
[10] Name this painting of the title goddess, begun in 1945. The mathematician Matila Ghyka was consulted to harmonize this painting with sacred geometry, and the Golden Ratio was written in the bottom right in its preliminary sketches.  
ANSWER: ***Leda Atomica***  
[10] This surrealist artist used his wife Gala as the model for *Leda Atomica*, and included her in other paintings such as *The Madonna of Port Lligat*, *Galatea of the Spheres*, and *The Hallucinogenic Toreador*.  
ANSWER: Salvador **Dalí** [or Salvador Domingo Felipe Jacinto Dalí i Domènech, Marqués de **Dalí** de Pubol]  
[10] Matila Ghyka probably perpetuated the myth that this artist “attacked every canvas by the Golden Section.” David Bergamini identified several uses of the golden ratio in this artist’s 1888 painting *Circus Sideshow*, where several musicians play trombones and cornets.  
ANSWER: Georges **Seurat** [or Georges-Pierre **Seurat**]

19. This party’s only successful gubernatorial candidate was Wally Hickel. For 10 points each:  
[10] Name this state-level third party whose ultimate aim, which would have been put on a 2006 referendum, was ruled unconstitutional in *Kohlhaas v. State.*  
ANSWER: **Alaska**n **Independence Party** [or **AIP**]  
[10] During an earlier term as a Republican governor in 1968, Hickel appointed this man to the U.S. Senate, though he later called for his resignation after this man was indicted for receiving over $250,000 in gifts from the VECO Corporation. He remained in office until 2009.  
ANSWER: Theodore Fulton “Ted” **Stevens**, Jr.  
[10] This fedora-sporting, bolo-tie-wearing founder of the Alaskan Independence Party ran for governor several times. Before giving a speech to the U.N. in favor of Alaskan secession, he was murdered in 1993, although the official motive was a plastic explosive sale gone bad.  
ANSWER: Joseph “Joe” **Vogler**

20. On the recommendation of Ezra Pound, Harriet Monroe allowed this man to edit the magazine *Poetry* for the February 1931 issue, which helped to start a poetic movement. For 10 points each:  
[10] Name this American writer who wrote “Poem Beginning ‘The’” as a kind of response to T. S. Eliot’s *The Waste Land*.  
ANSWER: Louis **Zukofsky**  
[10] Zukofsky maintained a 36-year collaboration with this American poet, who wrote a poem about an object upon which “so much depends,” which stands “glazed with rain / water” “beside the white / chickens.”  
ANSWER: William Carlos **Williams**  
[10] Zukofsky spent more than forty years working on this extremely long poem in twenty-four sections, the first seven of which Zukofsky included in *An “Objectivists” Anthology* in 1932.  
ANSWER: “**A**”

21. The doctrine of the plurality of these concepts is one part of what twentieth-century scholars have dubbed the *binarium famosissimum* of Augistinian scholasticism. For 10 points each:  
[10] Name these concepts that Aristotle divided into substantial and accidental. Plurality was the claim that an object could have multiple substantial ones.  
ANSWER: **form**s  
[10] The other half of the *binarium famosissimum* is this doctrine, which claims that all creatures except God consist of matter and form. Like plurality of forms, it was championed by Bonaventure, and opposed by Aquinas.  
ANSWER: **universal hylomorphism** [prompt on “hylomorphism”]  
[10] Hylomorphism contrasts with hylozoism, the belief that matter is itself alive, independent of form. Hylozoism was popularized by Ralph Cudworth, a 17th-century Platonic philosopher based at this English university.  
ANSWER: University of **Cambridge**