2016 MYSTERIUM: "I quiz all sounds, all thoughts, all everything" Packet 13 – messager

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## Tossups

1. In a short story, old Mr. Gookin and a character with this profession grab the protagonist and lead him to a flaming rock. In a chapter titled for a man with this job "in a Maze," that character almost teaches swear words to some children after his own daughter washes his kiss off in a forest brook. A character with this profession asks "why do you tremble at me alone?" on his deathbed, years after he is left by his fiance Elizabeth. A man with this job holds (\*) hands with two other characters while watching a meteor on a scaffold where he later collapses and dies on Election Day. This is the job of Mr. Hooper, who constantly wears a black veil. For 10 points, give this profession of Arthur Dimmesdale, the lover of Hester Prynne in Hawthorne's *The Scarlet Letter*.

ANSWER: <u>minister</u> [accept <u>reverend</u>, <u>parson</u>, or other obvious equivalents like <u>preacher</u>, <u>pastor</u>, or <u>priest</u>] <JB American Literature>

2. A type of anti-nuclear antibodies that targets Scl-70, a member of this group of enzymes, is implicated in the diffuse systemic type of scleroderma. Many of these enzymes function by first binding to a G-segment of DNA and forming a double-strand break in that G-segment using a pair of catalytic tyrosine residues; then, the T-segment is transported through the C-terminal gate and the break is resealed. That is the two-gate model of these enzymes. These enzymes are responsible for the resolution of catenanes and hemi-catenanes. The quinolone family of antibiotics target this group of enzymes. Compounds isolated from the genus Camptotheca, like irinotecan and (\*) topotecan, inhibit the Type I form of these enzymes in eukaryotes. The function of that subgroup is to change the DNA linking number by units of plus or minus 1. DNA gyrase is a prokaryotic type II form of these enzymes. For 10 points, name these enzymes that regulate DNA supercoiling and overall topology.

ANSWER: **topoisomerase**s <SP Biology>

3. This island's Uroa coin hoard might have been buried to hide it from the Portuguese expedition commanded by Ruy Lorenço Ravasco. This island, which is home to a large population of Persian descent called the Shirazis, was the base of Tippu Tip's slave trade. A conflict on this island was sparked by Khalid bin Barghash's seizure of the throne, and caused damage to the electrified (\*) House of Wonders, located in this clove-producing island's Stone Town. Formerly the capital of the sultanate of Oman, this island became a British protectorate as the result of a treaty which gave Germany control over Heligoland. For 10 points, name this island that was the site of the world's shortest war and, in 1964, merged with Tanganyika.

ANSWER: **Zanzibar** <WC World History>

4. In a parody of a painting of this person by Kehinde Wiley, he is replaced by a black man wearing a bandana. A painting of this person includes a copy of Plutarch's Lives by a lion-shaped table leg and uses a chair decorated with bees, a clock reading 4:13, and burned-down candles to suggest his work ethic. This man was depicted at the Pont d'Arcole by an artist who also painted him (\*) touching the sores of a plague victim in Jaffa. This man stands between his kneeling wife and the pope in another painting. The names "Karolus Magnus" and "Hannibal" appear on rocks in a painting in which this man sits on a rearing horse and points his troops forward up a mountain. For 10 points, name this monarch depicted at his coronation, in his study, and crossing the Alps by Jacques-Louis David.

ANSWER: <u>Napoléon Bonaparte</u> [accept either; accept <u>Buonaparte</u>] <JB Visual Arts>

5. The protagonist of this play grabs a woman he has just met then seizes her fiance by the throat when he "dares" to touch her. A comic servant in this play is shot while hiding in some rocks during a battle and laments the bolting of his horse in the first scene. In this play, an old man captures a character who he believes to be his son when he sees a sword which he once gave to his Russian lover. A locket in this play is revealed to contain a picture of (\*) Rosaura, who disguises herself to get revenge on Duke Astolfo, who had seduced her then abandoned her for his cousin Estrella. In this play, an astrological prophecy causes Basilio to lock his son up in a tower. For 10 points, name this play about the Polish prince Sigismundo, the masterpiece of Pedro Calderón de la Barca.

ANSWER: *Life is a Dream* [or *La <u>vida es sueño</u>] <JB Other Literature>* 

6. This book claims that men should marry around the age of 37 and women around 18, and that marriages should happen in Winter when there are northerly winds. This work's last book includes lengthy defences of gymnastics and music as part of its discussion of education, which introduced the concept of "liberal arts." It begins with a discussion of the purposes and properties of *koinonia*. It claims that, since the limbs cannot survive without the body, the state is prior to the family and the individual. Book 2 of this treatise begins with a lengthy critique of Plato's *Republic* and *Laws*. This book infamously concludes that men must rule their (\*) households like kings, and that some people are born to be slaves. In Book I, it declares that "man is by nature" its namesake kind of animal. This book is usually considered to be a follow-up to the *Nicomachean Ethics*. For 10 points, name this book by Aristotle, which lists tyranny, oligarchy, and democracy as the three bad kinds of government.

ANSWER: *Politics* [or *Politika*] <JR Philosophy>

7. This chemist is the alphabetically-first namesake of a rearrangement which converts N-alkylated aniline-derivatives to their corresponding *ortho*- and *para*-alkylated anilines. That rearrangement, similar to the Fries ("freeze") rearrangement, is named for this man and Martius. An intramolecular reduction reaction of ammonium salts named for Emde follows a mechanism similar to an elimination reaction discovered by this man. In that elimination, silver oxide is added to a quaternary amine, forming alkene and amine products. His most famous rearrangement involves the addition of bromine of primary amides to produce isocyanates, which subsequently form primary amines upon hydrolysis. For 10 points, name this (\*) German chemist who shares his name with a 20th-century theoretical chemist who developed rules predicting the rates and products of pericyclic reactions along with Woodward.

ANSWER: August Wilhelm von <u>Hofmann</u> <SP Chemistry>

- 8. Description acceptable. According to the 256th verse of one text, this action cannot be done under duress. According to one tradition, this action gives between a ten and a seven hundred-fold multiplier for good deeds. This action would naturally be followed by buying a sajjāda. This act is often seen as a "reversion," due to the doctrine of fitra. This action hinges on (\*) saying the words "lā ilāha illā-llāh." This non-physical process is immediately followed by ghusl. Not doing this action was once punishable by death, according to the Sword Verse. Expressing belief in tawḥeed by sincerely reciting the shahāda is all that is required in this action. For 10 points, identify this process that involves asserting one's belief in Allah and his prophet Muhammad.

  ANSWER: converting to Islam [accept equivalents like becoming a Muslim; accept "taking shahāda" or similar answers until "shahāda" is mentioned]
- 9. A book written in this language addressed itself to "women and men who are like women." The First World Conference for this language was held in 1908 in Czernowitz ("chair-no-vitz"). According to the nationalization policy of the early Soviet Union, this was the only national language without a defined geographic area. Intellectuals who used this language were the main victims of the Night of the Murdered Poets and the (\*) fabricated Doctor's Plot. The *Birobidzhan Star* was published in this language, the use of which was opposed by the *maskilim* ("mah-skee-leem"). Many speakers of this language lived in shtetls in the Pale of Settlement. For 10 points, what Germanic language is an official language of Russia's Jewish Autonomous Oblast? ANSWER: Yiddish [accept Idish or Idish ai]
- 10. A character in this novel is accused of sending signals with a mirror and confined to a lumber room, where he remembers searching for a wind-up circus and finding a secret tunnel. Since he is writing from a cabin in a motor court, this novel's narrator compares himself to Timon of Athens, which its title is taken from. In this novel, a girl claims to have spoken to a ghostly dot of light in a barn. This novel describes (\*) Hazel's suicide and begins "I was the shadow of the waxwing slain." It details the flights taken by Gradus on his way to New Wye, where he shoots a professor at Wordsmith College. This novel's narrator believes himself to be the former king of Zembla. For 10 points, name this novel that begins with the title poem by John Shade, a work of Vladimir Nabokov.

ANSWER: *Pale Fire* <JB European Literature>

11. This book advocates using love to force certain people to "see themselves as they are, to cease fleeing from reality and begin to change it." Its author notes that he didn't become a preacher for religious reasons, but rather to gain power over his father and to not become a drug dealer or pimp like his peers. The first part of this book was written for the 100th anniversary of the Emancipation Proclamation. The second and last part of this book attacks both the hypocrisy of white Christians and the separatism of Elijah Muhammad, and is titled "Down At The (\*) Cross – Letter from a Region of My Mind." The first part of this book is a "Letter to my Nephew" that inspired Ta-Nehisi Coates's Between the World and Me. For 10 points, name this dissection of the "Negro Problem," a short 1963 James Baldwin book titled for an impending racial catastrophe.

ANSWER: *The Fire Next Time* <JR Social Science/Thought>

12. This term titles the fourth and last chapter of a book that introduced the term *Kunstwollen* ("KOONST-voll-un") to account for its development: Alois Riegl's ("REE-gull's") *Stilfragen* ("SHTILL-frah-gun"). In ballet, an extreme variety of a position with this name is called "penché" ("pon-SHAY"). Schumann's Opus 18 has this title, as do a pair of early piano pieces by Claude Debussy. This term denotes a ballet position in which the dancer stands straight on the (\*) supporting leg while lifting the working leg behind them. Precursors to a pattern of this name can be seen in San Vitale and the Hagia Sophia. They were often complemented by geometric patterns like an eight-pointed star, due to a prohibition on depicting people. This kind of pattern was used for most of the stucco decorations of the Alhambra. For 10 points, name these leaf- or tendril-like ornaments named for their use in Islamic architecture.

ANSWER: <u>arabesque</u> <JR Other Arts>

- 13. Every finite extension of a finite field has this kind of Galois ("gal-WAH") group, since they are all simple radical extensions. The orders of these objects are described as "elementary divisors" or "invariant factors" in an important pair of decompositions. By the Jordan–Hölder Theorem, these objects are the factors in any composition series of a finite solvable group. According to a Fundamental Theorem, every finitely generated abelian group is isomorphic to a direct product of these objects. If the order of a group is squarefree, its Sylow ("SEE-lohy") *p*-subgroups must be this kind of group. Under multiplication, the *n*th roots of (\*) unity form this kind of group, as do the rotations in a dihedral group. Every group of prime order is this kind of group. Every finite one of these groups is isomorphic to *Z* mod *n*-*Z*, since they can all be represented as modular addition. These abelian groups are all generated by one element. For 10 points, name these simplest possible groups. ANSWER: finite cyclic groups [accept primary cyclic groups; prompt on "groups"]

  SIR Other Science
- 14. This person's "revolution" was indirectly compared to the rise of fascist dictators in a classic work of prosopography by Ronald Syme. He had his second wife, Scribonia, exiled to Pandateria. This man's fleet won a battle after the defection of Quintus Dellius. This man's wife built a villa at Prima Porta that housed a (\*) statue of him with a baby by his leg and raising his right arm. This husband of Livia Drusilla sponsored Vitruvius's *Architecture* and had Ovid exiled. During his reign, the Pantheon was constructed on the commission of Marcus Agrippa. Through his buddy Maecenas, this man patronized Horace and Virgil. This emperor created the Praetorian Guard and was succeeded by Tiberius. For 10 points, name this adopted son of Julius Caesar and first emperor of Rome.

ANSWER: Caesar <u>Augustus</u> [or <u>Octavian</u>; or Gaius <u>Octavius</u>; or Imperator Caesar Divi Filius <u>Augustus</u>; or Gaius Julius Caesar <u>Octavianus</u>]

<JR European/Ancient History>

15. This economist dissected the "optimism" and "overconfidence" of entrepreneurs in a chapter jokingly titled "The Engine of Capitalism." He criticized the use of indifference curves in a chapter on how people tend to overvalue goods they already own. This economist discussed how the desire for forming a coherent picture generates the "law of small numbers" and the effect "W-Y-S-I-A-T-I" or "what you see is all there is." This alphabetically-first author of (\*) "Choices, Values, and Frames" discovered that, despite what expected values say, people are far more risk-averse than reward-seeking. More recently, this man warned against trusting decisions to the brain's impulsive "System One." This man helped demolish rational actor theory with an alphabetically-later colleague by analyzing cognitive heuristics and biases. For 10 points, name this behavioral economist who developed prospect theory with Amos Tversky and wrote *Thinking, Fast and Slow*.

ANSWER: Daniel **Kahneman** <JR Economics/Psychology>

16. A dialogue between two voices reveals that this thing was loved by "the spirit who bideth by himself in the land of mist and snow." This thing falls and sinks "like lead" when the protagonist exclaims "O happy living things!" and blesses some snakes. The protagonist hopes to be washed of this thing's blood when he is approached by the skiff-boat of a hermit. After this creature's (\*) demise, a dice game is won by the "nightmare LIFE-IN-DEATH." A "thousand slimy things" appear after the death of this creature, which is credited with making "the breeze blow." After dying by crossbow, this creature is hung around the neck of the speaker, who later laments "Water, water, everywhere!" For 10 points, name this large bird which is disastrously shot in Coleridge's "The Rime of the Ancient Mariner."

ANSWER: the <u>Albatross</u> [prompt on "the bird from The Rime of the Ancient Mariner" or similar answers] <JB British Literature>

17. One god with this form is the Hopi god of death, Mastop, and the Japanese magic kodoku was created by enclosing several of these animals and waiting for them to kill each other. The shortness of Mjolnir's handle is due to one member of this class of animals biting Brokkr three times during its construction. Another of these animals sent by the Hero Twins differentiates between a group of mannequins and the Lords of Xibalba.

Eos's (\*) husband is turned into one type of these animals after she forgets to ask for his eternal youth, and one god connected with these animals in Egypt was responsible for rolling the sun across the sky and is named Khepri. Zeus gives birth to Athena after turning Metis into one of these animals and swallowing her. For 10 points, name this class of small animals such as beetles, flies, and moths.

ANSWER: **insect**s [accept **bug**s; accept specific types] <AF Mythology/Other>

18. The propagator for this particle is "negative i times the metric, over momentum squared." Contracting the external momentum of one of these particles with the scattering amplitude of the rest of the system gives zero according to the Ward identity. One-loop corrections to this particle's propagator lead to vacuum polarization. These (\*) spin-one particles have a helicity of either plus or minus h-bar, and they are represented by wavy lines on Feynman diagrams. Virtual ones are exchanged during electron-electron scattering, while real ones are emitted in bremsstrahlung. These particles are the gauge bosons of a U(1) gauge interaction described to great precision by QED. For 10 points, name these massless quanta of light that mediate the electromagnetic force. ANSWER: photons

<SE Physics>

19. He's not Ravel, but one of this composer's piano concertos was performed by Claudio Abbado with the Berlin Philharmonic in one of Martha Argerich's earliest recordings. His hardest piano concerto includes unusual markings like "narrante" and "colossale." Another of his piano concertos is in five movements, the third of a which is a tiny Toccata. His early piano pieces include the dissonant *Visions fugitives* and *Sarcasms*. This composer of the *Scythian Suite* wrote his sixth through eighth piano sonatas during the same (\*) war, thus their collective name. His first symphony replaced the scherzo with a gavotte and was written with a small orchestra, in imitation of Haydn. This composer of the "Classical" Symphony included a "Dance of the Knights" in his ballet version of *Romeo and Juliet*. For 10 points, name this Soviet composer of *Peter and the Wolf*.

ANSWER: Sergei (Sergeyevich) **Prokofiev** 

<JR Auditory Arts>

20. Members of this organization were loaded into cattle cars and dumped in the Arizona desert during the Bisbee Deportation. A member of this organization was represented by Orrin Hilton after he was accused of the murder of John Morrison. Elizabeth Gurley Flynn of this organization led an event which popularized the term "Bread and Roses." The phrase "pie in the sky" was coined in a song by this organization's (\*) Joe Hill, who contributed to its Little Red Songbook. Organizations like the American Labor Union and the Western Federation of Miners merged into this organization at a 1905 meeting. This organization promoted uniting all workers in "One Big Union," organized the Lawrenceville Strike, and was led by Big Bill Haywood. For 10 points, name this labor union prominent in the early twentieth century whose members were known as the Wobblies. ANSWER: International Workers of the World [or IWW; prompt on "Wobblies" until read] <LL American History>

## Bonuses

- 1. This body created the Reformed Government of Virginia. For 10 points each:
- [10] Name this set of meetings held in 1861 by Virginians who rejected their state's secession from the Union. These meetings paved the way for the creation of West Virginia.

ANSWER: **Wheeling** Convention

[10] In this Confederate state, meetings were held by delegates who wanted its eastern counties to secede and form a new state. A leader of the pro-Union movement in this state became Abraham Lincoln's running mate in the 1864 election.

ANSWER: Tennessee

[10] That leader of the Tennessee unionist movement was this man, who became president after the assassination of Abraham Lincoln. His disagreements with Congress led to his impeachment.

ANSWER: Andrew Johnson

<NC American History>

- 2. In these patients, the right hand sometimes "fights" with the left hand. For 10 points each:
- [10] Give this term for patients who have had their corpus callosum severed.

ANSWER: **split-brain** patients

[10] Studies of vision in split-brain patients have to test the right and left visual fields, and not the right and left eyes, since *this* structure crosses over in its namesake chiasm. This nerve feeds from each retina to the brain.

ANSWER: **optic** nerve [or Cranial Nerve **II**]

[10] The most famous studies of split-brain patients were done by a Nobel prize-winning Caltech professor and his student. Name *either*.

ANSWER: Roger (Wolcott) **Sperry** OR Michael (S.) **Gazzaniga** 

<JR Economics/Psychology>

- 3. Before the action of this play, Recha is dramatically saved by Guy of Filnek. For 10 points each:
- [10] Name this play by Gottfried Lessing in which the title character and Saladin meet over a chessboard, and Guy is revealed to be Recha's brother.

ANSWER: Nathan the Wise

[10] The "Ring Parable" from *Nathan the Wise* makes the case that it is possible for Christians, Jews, and this religion's followers can live in peace. In the play, Saladin is a member of this religion.

ANSWER: Islam

[10] Nathan the Wise opens with Daya describing Recha's rescue from one of these events. The title character of the Icelandic *Njal's Saga* dies in one of these events.

ANSWER: house<u>fire</u>s

<LL European Literature>

- 4. PostGIS ("post-G-I-S") is an extension to one of these systems, PostgreSQL ("post-gress-Q-L"), that optimizes for queries like nearest-neighbor search. For 10 points each:
- [10] Name these structured storage systems. The "spatial" type of these systems may organize maps or other geographic information into more efficient structures than the common "relational" type's tables.

ANSWER: <u>database</u>s [accept spatial <u>database</u>s or geo<u>database</u>s]

[10] Finkel and Bentley introduced this 2D spatial data structure in 1974. Each internal node of this data structure has the same number of children, which subdivide the node's bounding box into NW, NE, SW, and SE rectangles. ANSWER: **quad**tree

[10] Quadtrees ease this task of computing intersections among objects by reducing the search space to one leaf node. Browsers use hit-testing below your cursor on a webpage for this task, while video games rely on hitboxes.

ANSWER: **collision** detection [or **CD**; accept equivalents like "checking for **collision**s"]

<OL Other Science>

- 5. This character's final monologue is punctuated by an offstage chorus shouting his name, which leads him to frenziedly shout it himself. For 10 points each:
- [10] Name this man who sings "to hell with all your mercy!" after reciting "The first one died, just died... the other slipped, and died... and the third will... 'Accidental circumstances'... Water will drink his sorrows."

ANSWER: **Peter Grimes** [accept either]

[10] Peter Grimes was written by this 20th-century English composer who also wrote War Requiem.

ANSWER: (Edward) Benjamin Britten

[10] In that monologue, Britten has the tuba imitate a foghorn by playing two notes separated by *this* musical interval.

ANSWER: a <u>semitone</u> [or <u>half-step</u>; or <u>minor second</u>; prompt on "second"; do <u>not</u> accept just "tone" or "step"] <JR Other Arts>

- 6. The Rabbi Rashi spent his entire life in this city. For 10 points each:
- [10] Name this former capital of Champagne. Charles VI signed a treaty in this city giving France to the heirs of Henry V.

ANSWER: Troves ("twah")

- [10] The market in Troyes was renowned in the trade of this substance, which is still weighed in "troy ounces." ANSWER: **gold**
- [10] Troyes was also the birthplace of Hugues de Payens ("oog duh PEN"), who founded *this* order, which was disbanded by Clement V. Philip the Fair had its Grand Master Jacques de Molay burnt at the stake.

ANSWER: Knights <u>Templar</u> [or <u>Order of Solomon's Temple</u>; or <u>Templiers</u>; or <u>Ordre du Temple</u>; or <u>Poor Fellow-Soldiers of Christ and of the Temple of Solomon</u>]

<JR European/Ancient History>

- 7. This book includes an account of the "Chinese prejudice" and "hieroglyphic prejudice" in a section on its title subject "as a positive science." For 10 points each:
- [10] Name this book that extensively critiques "The Writing Lesson" in its section "The Violence of the Letter." ANSWER: *Of Grammatology* [or *De la grammatologie*]
- [10] The core of Derrida's *Of Grammatology* is a critique of this earlier thinker's *Essay On the Origin of Languages*. In another work, this thinker proposed a kind of self-love based on the opinions of others, called *amour-propre*. ANSWER: Jean-Jacques **Rousseau**
- [10] Derrida's most famous works, including *Of Grammatology*, were published in this decade, in which student protesters killed Theodor Adorno. Herbert Marcuse reached peak influence during this decade, as did Hippies.

ANSWER: the 19<u>60s</u>

<JR Philosophy>

- 8. Soon before this man's death, he declares that "Cowards die many times before their deaths; / The valiant never taste of death but once." For 10 points each:
- [10] Name this character who is told to "Beware the Ides of March" and titles a Shakespeare play.

ANSWER: <u>Julius Caesar</u> [accept either]

[10] This character from *Julius Caesar* tells his co-conspirator that "The fault... is not in our stars, but in ourselves" and tells Pindarus to kill him after believing that Titinius was captured.

ANSWER: Cassius

[10] This other character from *Julius Caesar* consents for his brother to die in the proscriptions following Caesar's death and is called also called a "A barren-spirited fellow" who must be "taught and train'd and bid go forth" by Marc Antony.

ANSWER: <u>Lepidus</u> <LL British Literature>

- 9. The creator of this model easily proved that it has no phase transition in one dimension, but it took Lars Onsager until 1944 to find its critical temperature on the 2D square lattice. For 10 points each:
- [10] Identify this toy model, which places atomic dipoles on a lattice and assigns an energy bonus to those that are aligned. It is most famous as a microscopic model for ferromagnetism.

ANSWER: **Ising** model

[10] For a 2D square lattice, the critical temperature can be found using this symmetry, which maps between highand low-temperature states of the Ising model. The critical point is at the fixed point of this mapping.

ANSWER: **Kramers-Wannier** duality

[10] As in all of statistical mechanics, Ising energies can be non-dimensionalized by multiplying by thermodynamic beta, which equals one over temperature times this constant, symbolized k-sub-B.

ANSWER: **Boltzmann**'s constant

<SE Physics>

- 10. In 2015, Igor Levit released a recording of the *Goldberg Variations*, the *Diabelli Variations*, and this piece. For 10 points each:
- [10] Name this set of thirty-six variations on a Chilean socialist anthem by Frederic Rzewski ("SHEF-ski").

ANSWER: The **People United Will Never Be Defeated!** 

- [10] *The People United Will Never Be Defeated!* was written for Ursula Oppens, who worked extensively with this "difficult" American composer of a *Double Concerto* for harpsichord and piano. He died in 2012 at the age of 103. ANSWER: Elliott (Cook) **Carter** (Jr.)
- [10] Oppens was one of *this* many pianists who commissioned Carter's *Night Fantasies*. Carter also wrote five works for a string ensemble with *this* many players, which is probably the best-known chamber ensemble.

ANSWER: **four** [or **4**; accept **quartet**]

<JR Auditory Arts>

- 11. Tencent, an internet company from this country, developed the popular WeChat messaging app. For 10 points each:
- [10] Name this country that currently has the world's largest number of internet users, since it also has the world's largest number of people.

ANSWER: People's Republic of China [or Zhōngguó; do not accept "Republic of China"]

[10] One of the world's biggest online shopping holidays is *this* holiday from China, which is celebrated every year on November 11th. The most widely accepted story states that it originated from the dorms of Nánjīng University.

ANSWER: Singles' Day [or Guānggùn Jié]

[10] This company, which holds a trademark for "Double Eleven," makes massive sales on Singles' Day. Jack Ma founded this e-commerce company, which owns online shopping site Táobǎo and had the biggest IPO in US history in 2014.

ANSWER: <u>Alibaba</u> Group <WC Mythology/Other>

- 12. Buckley's speech during this event references an incident in which its subject masturbated to a newsreel in a movie theater. For 10 points each:
- [10] Identify this courtroom scene which ends with a death sentence for its subject, despite Boris Max's lengthy speech about the oppression that resulted in his murder of Mary Dalton.

ANSWER: the <u>trial</u> of <u>Bigger</u> Thomas [or the <u>trial</u> scene from <u>Native Son</u>]

[10] The trial of Bigger Thomas occurs in Native Son, a novel by this author of the autobiographical Black Boy.

ANSWER: Richard Wright

[10] Boris Max and Jan Erlone are members of this organization, which Richard Wright described leaving after witnessing the trial of Ross in *Black Boy*.

ANSWER: **Communist** Party [prompt on the **Party**]

<JB American Literature>

- 13. The Henrician Articles established the right of this social class to directly elect the king. For 10 points each:
- [10] Name this social class that came to dominate the Polish–Lithuanian Commonwealth during the age of Golden Liberty. Many members of the legislative body known as the Sejm ("same") came from this social class.

ANSWER: szlachta ("shlock-tah") [prompt on "nobles," "gentry," "aristocracy," or equivalents]

[10] By declaring "I do not allow it," any member of the Sejm could invoke this heavily-abused right to defeat any measure under consideration, or to dissolve the Sejm and nullify all acts during its session.

ANSWER: liberum veto

[10] The liberum veto was abolished after Poland adopted the first codified document of this type in Europe in 1791, during the reign of Stanisław Poniatowski ("STAH-nee-swoff poh-nya-TOF-ski"), just two years after the United States adopted one in 1789.

**ANSWER:** constitution

<WC European/British History>

- 14. This oncovirus causes primary effusion lymphoma and certain types of multicentric Castleman's disease. For 10 points each:
- [10] Name this herpesvirus with a large genome, that has numerous host genes in its genome including genes for GPCRs, IL-6, Bcl-2, dihydrofolate reductase, complement-binding protein, and others.

ANSWER: HHV-8 [accept, but do not reveal, KSHV or Kaposi sarcoma-associated herpesvirus]

[10] HHV-8 most famously causes a subtype of *this kind* of connective tissue cancer named for Kaposi, which is often present in AIDS patients. Bone cancers of this type are relatively common in teenagers.

ANSWER: **sarcoma**s [accept any specific sarcoma, like Kaposi's or Ewing's]

[10] Uniquely, HHV-8 protein LANA tethers the viral episome to these cellular structures. These structures are linear pieces of DNA in the nucleus, and humans have 46.

ANSWER: chromosomes

<SP Biology>

- 15. This ruler diverted funds meant for purchasing new warships to rebuild the Summer Palace. For 10 points each:
- [10] Name this ruler, who regained power as regent when a coup ended the Hundred Days of Reform initiated by the Guāngxù ("gwong-shoo") Emperor. This ruler's military besieged the Legation Quarter in support of the Boxer Rebellion.

ANSWER: <u>Cíxǐ</u> ("tsuh-shee") [or <u>Tzu-hsi</u>; prompt on "Empress Dowager"]

[10] Cíxǐ was advised by this statesman, who sponsored the modernized Běiyáng Fleet. While negotiating the Treaty of Shimonoseki to end the First Sino-Japanese War, he was wounded by a Japanese extremist.

ANSWER: Lǐ Hóngzhāng ("hung-jong")

[10] Cíxǐ was the leader of this last imperial dynasty of China. This Manchu dynasty founded by Nurhachi succeeded the Míng dynasty.

ANSWER: <u>**Qīng**</u> dynasty [do <u>not</u> accept "Qin dynasty"—ask them to spell it if you need to] <WC World History>

- 16. Answer some questions about the later career of Henri Matisse, for 10 points each.
- [10] Three years before he died, Matisse became the first Modern artist to be the subject of a major biography, which was written by *this* art critic. He had previously organized a Matisse retrospective as the first director of the MoMA.

ANSWER: Alfred H. Barr, Jr.

[10] Before Barr's book, this 1904 Matisse painting was almost unknown. This brightly-colored painting of bathing nudes, which uses Paul Signac's post-pointillist "divisionist" technique, is considered the beginning of Fauvism.

ANSWER: <u>Luxe</u>, <u>Calme et Volupté</u> ("LUKES calm ay vaw-lewp-TAY") [accept <u>Luxury</u>, <u>Calm</u>, <u>and Pleasure</u>] [10] While being interviewed for Barr's book, Matisse was designing works in *this* medium for his chapel in Vence ("vawnss"). In the Middle Ages, works in this medium allowed people to learn religious stories by just looking at the windows.

ANSWER: stained glass

<JR Visual Arts>

- 17. Gottlob Frege believed that neither this property nor its opposite could be assigned in the case of a presupposition failure. For 10 points each:
- [10] Identify this semantic property of sentences. Two sentences that contradict one another cannot both have this property, which corresponds to a "one" in Boolean logic.

ANSWER: **truth** [do not accept "falsehood"]

[10] Presupposition failure occurs when the presupposition to a sentence is not true, such as in a famous example asserting that the holder of this no-longer-extant post is bald.

ANSWER: the **king of France** 

[10] A weaker relationship between sentences is implicature, which has this property. For example, "John has three sisters" implicates that he has exactly three, but one could demonstrate this property by adding "in fact, he has four." ANSWER: they are **cancellable** [accept **cancellability** or other word forms of **cancel**; accept **defeasibility** or other word forms of **defeasible**]

<SE Social Science/Thought>

- 18. With this thing, "wool comes not to market" and "sheep bringeth no gain." For 10 points each:
- [10] Give this word defined as a "a charge for the use of purchasing power" by a footnote to a section of a longer poem that laments how "no man [hath] a house of good stone" with it.

ANSWER: <u>usura</u> [prompt on "usury," "interest," "money-lending," or similar answers]

[10] "With Usura" is a section of this lengthy, incomplete poem which includes Chinese characters in its section on Confucius. One of its sections was written from inside a cage in Pisa after its author was imprisoned for being a fascist.

ANSWER: The Cantos

[10] The first section of Ezra Pound's *The Cantos* opens "And then went down to the ship" and freely translates a passage from *this* Homeric epic about a wily hero's journey home to Ithaca.

ANSWER: *The Odyssev* [or *Odysseia*]

<JB Other Literature>

- 19. The 145th one of these prayers is the core of the Ashrei ("osh-RAY"). For 10 points each:
- [10] Name these 150 Biblical texts that form the core of the Jewish liturgy. Many of them were supposedly sung by King David.

ANSWER: **psalm**s [or **tehillim**]

[10] Taking their cue from some Psalms, Jewish prayers often use *these* poetic devices, in which the first letter of each line spells out a message like the author's name or the Hebrew alphabet.

ANSWER: acrostics

[10] Psalms 113 through 118 are sung in *this* extra service sung on multi-day Jewish holidays, Shavuot, and Rosh Chodesh. This word means "praise" and also refers to Psalm 136, each line of which ends "ki l'olam khasdoh" ("kee leh-oh-LOM hoss-DOH").

ANSWER: **hallel** [accept "the Great **Hallel**"]

<JR Religion>

- 20. Cyclopentadiene rapidly undergoes this reaction, which is why it appears as a singlet in the proton NMR at room temperature. For 10 points each:
- [10] Name this general class of reactions, of which the Cope rearrangement is a member. These reactions generally involve concerted shifts of hydrides or alkyl groups down a pi system.

ANSWER: sigmatropic rearrangement [prompt on "pericyclic reaction"]

[10] Cyclopentadiene, after it undergoes a one-electron reduction, is a ligand in this sandwich compound that won Wilkinson and Fischer the Nobel in 1973.

ANSWER: ferrocene

[10] The cyclopentadienyl anion, like benzene, is planar and has 4n plus 2 pi electrons. That means that it has this stabilizing property.

ANSWER: **aromatic**ity <SP Chemistry>