

## PRISON BOWL XI: WE LOVE NO FISH

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### PACKET FIVE

#### Tossups

1.

**The ratio of this quantity to the maximum shear stress on a beam is equal to the polar version of an another quantity. In a magnetic dipole, this quantity is equal to the cross product of the dipole with the magnetic field, and in a loop of wire this quantity equals the product of current, magnetic field, and the area of the loop. In a (\*) lever in equilibrium, this quantity has a net value of zero. This quantity is equal to moment of inertia times angular acceleration and is also the time derivative of angular momentum. In a pulley, this quantity is equal to the tension of the rope times the radius of the disk. For 10 points, name this quantity that is the rotational analog of force.**

ANSWER: **torque** [accept **tau**; accept **moment of force**] <AJ>

2.

**The Batavia Muckdogs and the New Orleans Baby Cakes are minor league affiliates of this team. It's not the Rockies, but this team has never won their division, although they have won the World Series twice as a wildcard. A former player of this team signed a 13-year, \$325 million contract with them before being traded to the New York Yankees; that player, formerly known as Mike, is (\*) Giancarlo Stanton. This team plays in a stadium with a large home run sculpture designed by Red Grooms and two large aquariums directly behind home plate. For 10 points, name this southeastern baseball team, partially owned by Derek Jeter, which plays in Miami.**

ANSWER: Miami **Marlins** [accept **Miami** before mention; do not accept or prompt on "Florida Marlins"] <BC>

3.

**It's not George Abbot, but Edward la Zouche is best remembered for an event relating to this figure. This loser of the Battle of Langside surrendered at the Battle of Carberry Hill, and Francis Throckmorton was a supporter of this figure. The murder of this figure's secretary, David Rizzio, was in part organized by Lord (\*) Darnley. The Rising of the North promoted the rule of this figure, who was targeted in the Rough Wooing. This figure's power was also supported by a plot engineered by John Ballard and its namesake, Anthony Babington. This Catholic leader was James I's mother. For 10 points, name this woman from the House of Stuart who was executed for treason by Elizabeth I.**

ANSWER: **Mary, Queen of Scots** [accept **Mary I of Scotland**; accept **Mary Stuart** until "Stuart" and prompt after; prompt on **Mary I**; do not accept or prompt on "Bloody Mary" or "Mary I of England"] <AJ/CL>

4.

**A woman holds a white parasol in front of a seascape in this artist's *The Great War*. This artist replaced the central woman with a coffin in a "perspective" on a portrait by Jacques-Louis David. Blue flowers hang on a curtain overhead a rocky scene in this artist's work *The Palace of Memories*. In one work by this artist, five men covertly watch a person who is listening to a (\*) gramophone. This artist's *Golconde* depicts a rainy day scene with an unconventional substitute for raindrops: men in tuxedos. The artist of *Time Transfixed*, for 10 points, name this Belgian surrealist who wrote the words "This is not a pipe" in his work *The Treachery of Images*.**

ANSWER: René (François Ghislain) Magritte <GA>

5.

**This author who proclaims, "I was angry with my friend," at the beginning of one poem wrote *Vala* about characters like Luvah, Tharmas, and Urizen created by the fall of Albion, three of the title *Four Zoas*. This author of "A Poison Tree" and "The Sick Rose" created a character who can "scarcely cry 'weep!'" in a poem which shares its title with one about a "little (\*) black thing among the snow," "The Chimney Sweeper." In one poem, this writer asks, "What immortal hand or eye, / Dare frame thy fearful symmetry?" and describes the title animal as "burning bright." For 10 points, name this Romantic poet of "The Tyger," included in his collection *Songs of Experience*.**

ANSWER: William Blake <RY/CL>

6.

**Many official publications following this event came from the Aldine Press, headed by Paulus Manutius. Johannes Brenz attempted to participate in this event at which one group derided another's "vain confidence." A surprise victory by Maurice paused this event which was followed up by *Benedictus Deus*. At this event, participants agreed to decrease the number of leap years and created a list of banned (\*) books. This last church council before the First Vatican was convoked by Pope Paul III in 1545. In addition to affirming the Vulgate, this church council condemned Protestant heresies. For 10 points, name this Catholic Church council which kickstarted the Counter-Reformation.**

ANSWER: Council of Trent [or Council of Trento; accept Concilium Tridentinum] <CL>

7.

**This country's current constitution replaced Proclamation Number Three, and some people from this country joined the BUDC during the Hukbalahap peasant insurgency. A movement in this non-U.S. country is sometimes named for yellow ribbons displayed after one leader of the LABAN party in this country returned from self-exile in 1983 and was assassinated at an (\*) airport. In this country, after the surrender of the fortress of Corregidor, thousands of troops went on a "death march" through Baatan. In this country, Corazon Aquino led the People Power Revolution to replace Ferdinand Marcos. For 10 points, name this Southeast Asian island nation with capital at Manila.**

ANSWER: Republic of the Philippines [accept Republika ng Pilipinas] <BL>

8.

**One allosteric ligand to this molecule is nitric oxide, which binds onto thiol groups to form S-nitrosothiol. Abnormal production of this molecule, which is affecting by an autosomal recessive mutation called Lepore syndrome, characterizes a group of inherited disorders called thalassemias. The (\*) Haldane and Bohr effects describe the carbon dioxide affinity of this molecule. In adult humans, the most common form of this molecule consists of two alpha and two beta subunits, and this protein's cofactors consist of four porphyrin rings binding a metal ion. For 10 points, name this iron-containing oxygen transport protein found within red blood cells.**

ANSWER: hemoglobin [prompt on Hb or Hgb] <AP>

9.

**In this opera, a clarinet solo opens a B minor spinto tenor aria whose melody is repeated in the final scene. This opera's third act begins with a shepherd boy singing "I give you sighs" in the Romanesco dialect. One character in this opera extols the acting abilities of her lover who she believes faked his death by firing squad. In this opera, (\*) Angelotti hides in a chapel while a painter compares his portrait of Mary Magdalene to his lover in "Recondita armonia." In this opera, one character sings "Vissi d'arte" before stabbing Baron Scarpia with a kitchen knife. For 10 points, name this opera by Giacomo Puccini set in Rome in which the title singer leaps to her death off the Castel Sant' Angelo.**

ANSWER: Tosca <GA>

10.

**In one work, Boomer comments on the awkwardness of one of these animals. A man makes a distinction between "Lockean" and "Kantean" examples of these animals, which the cook Fleece prepares for Stubb in one work. In one novel, "gams" are meetings between groups hunting these animals like the *Samuel Enderby*. One character uses a bone from this animal as a (\*) prosthetic leg, and hunters of them include a Parsee named Fedallah. A white one of these animals has taken off the leg of the captain of the *Pequod*, Ahab, leading to a voyage narrated by Ishmael. For 10 points, identify these large aquatic mammals, one of whom titles the Herman Melville novel *Moby-Dick*.**

ANSWER: whales (in *Moby-Dick*) [prompt on Cetaceans] <CL>

11.

**The victors at the Battle of Bitonto were members of his royal house. A cadet branch of this house was founded by Philip, Duke of Parma. A disputed ruler of this house was offered a throne in 1870 but refused, saying the nation's flag should be restored to a white banner last flown in 1790. Legitimists and (\*) Orleanists dispute which branch of this family is the legitimate pretender. The first major ruling member of this family declared, "Paris is worth a mass," and converted to Catholicism. That ruler was Henry IV. For 10 points, name this current ruling house of Spain and Luxembourg, which ruled France for over three centuries until the execution of Louis XVI.**

ANSWER: House of Bourbon [prompt on Capetian] <BL>

12.

**Surface analysis of one technique involving these particles features KLL and LMM peaks. That technique depends on an effect discovered by Lisa Meitner and Pierre Auger. In one process, high-velocity beams of these particles are shot from a welding machine to fuse metals. The iridium tetroxide cation has the highest known value, +9, in one measurement quantifying the (\*) loss of these particles. Analyte molecules expel these particles in a method of mass spectrometry in which they are ionized. These particles are stationary in the plum pudding model and move in orbitals in the Bohr model. For 10 points, name these elementary particles which have a negative charge.**

ANSWER: electrons <AJ/GA>

13.

**This deity fell in love with the Athenian princess Herse, and was tricked into paying money to give her a message. This deity had a child with the nymph Dryope, who ran away screaming after first seeing the ugly baby. Battos was turned into a rock by this god, and in order to protect him from Circe's sorcery, this father of (\*) Pan gave the herb moly to Odysseus. This son of Zeus and Maia, who carried a snake-entwined caduceus, was given a spot on Mount Olympus after he captured Apollo's cattle and used a tortoise's shell to fashion the first lyre. One of this deity's symbols is a pair of winged sandals. For 10 points, name this Greek messenger god.**

ANSWER: Hermes <RY>

14.

**Wilhelm Stekel used analysis of these things to argue that everyone has an inner artist. According to Carl Jung (“YOong”), the formation of a “day residue” is crucial to the development of these things. One theory about these things describes them as the products of condensation, displacement, and/or representation. That theory describes these things, including one (\*) about Otto giving the title woman a propyl preparation which is called Irma’s Injection, as a form of wish fulfillment and was developed in a book about the interpretation of them. For 10 points, name these things analyzed by Sigmund Freud which people experience while asleep.**

ANSWER: dreams <CL>

15.

**Characters in this novel visit the Pioneer Café, and due to distinctive birthmarks, one is nicknamed “Map-face” and has a father who wears a perfectly parted wig. In this novel, Aadam’s first word is “abracadabra” and Ghani allows a man to see one part of a woman at a time through a sheet with a hole. One of the workers at a pickling factory in this novel is (\*) Mary Pereira. The protagonist of this novel, whose biological father is William Methwold, loses his ability to act as a “human radio” after getting sinus surgery and is named Saleem Sinai. For 10 points, name this novel about a group of people born at the moment of Indian independence, a work by Salman Rushdie.**

ANSWER: Midnight’s Children <AJ/CL>

16.

**In one scandal, this person framed James Saville for planning to assassinate him. Manuel Melendres filed suit against this elected official in 2007. Donald Trump claimed the timing of one event surrounding this person was intended to provide “far higher” television ratings. This man is primarily known for his work in (\*) Maricopa County, where shoes were reported to be melting in a “Tent City.” This contender for Jeff Flake’s Senate seat is perhaps best known for his controversial self-described concentration camps, and in 2017, President Trump pardoned him. For 10 points, name this law enforcement officer and political candidate from Arizona, sometimes called “Sheriff Joe.”**

ANSWER: Joseph Michael “Joe” Arpaio [accept Sheriff Joe before read] <CL>

17.

**The acronym CLORPT can be used to remember the factors affecting the development of these materials, as per a state equation formulated by Hans Jenny. Edaphic endemics are organisms only found near one type of these materials. Components of these materials which are transported to different parts of them, sometimes forming cutans, are known as (\*) illuvium. These materials formed by pedogenesis have layers called horizons and, when scattered by the wind, is called loess. A major component of these materials is humus and consists of decayed organic matter. For 10 points, name this material which can be sand, silt, or clay, and is colloquially called dirt.**

ANSWER: soil [accept topsoil; accept regolith or pedolith; prompt on dirt until mention; prompt on earth] <AJ>

18.

**This author wrote a story in which a vision of running deer is seen by Ragin from an asylum. Another story by this author, who wrote a work which includes the death of Tuzenbach, features a performance of *The Geisha* and an affair with Anna, a Pomeranian owner, in (\*) Yalta. One work by this author opens on Irina’s name-day, and he also wrote “Ward No. 6” and “The Lady with the Dog.” In one of this author’s works, Lopakhin buys Madame Ranevskaya’s estate and plans to cut down the title grove. For 10 points, name this Russian playwright behind *Three Sisters*, *The Seagull*, and *The Cherry Orchard*.**

ANSWER: Anton (Pavlovich) Chekhov <AL/CL>

19.

**One Russian player of this instrument premiered Prokofiev's nearly unplayable *Sinfonia Concertante*. Heitor Villa-Lobos scored the fifth of his *Bachianas Brasileiras* for soprano and eight of these instruments. Hanuš Wihan ("HA-nush WE-han") wrote a cadenza for a B minor concerto for this instrument, which was played during the Soviet invasion of Czechoslovakia by (\*) Mstislav Rostropovich, and one player of this instrument founded the Silk Road Ensemble. Jacqueline du Pré famously played this instrument in a recording of a concerto by Edward Elgar. For 10 points, name this string instrument played by Yo-Yo Ma which is pitched between the double bass and viola.**

ANSWER: violoncello <AJ/GA>

20.

**The holder of this position possesses an object which depicts "in the zenith an eye in a triangle, surrounded by a glory," which is the Great Seal. This was the last position Theodore Frelinghuysen held before retiring. While in this position, one man declared that division of labor was "in danger of breaking down," so his country should "assist in the return of normal economic health to the (\*) world," an articulation of his namesake "plan." One man with this position jointly won the 1973 Nobel Peace Prize with Le Duc Tho, who refused to accept it; that man was Henry Kissinger. Recently held by Rex Tillerson, for 10 points, name this U.S. cabinet position responsible for foreign affairs.**

ANSWER: U.S. Secretary of State [prompt on partial] <BL>

TB.

**This place was punished after Chrysippus was raped here by his tutor from this place. During one conflict at this location, Tydeus ate the brains of his opponent and was hence denied immortality. Semele died here when her mate revealed his full form at her insistence. One play set here sees Jocasta hang herself and her son, now (\*) husband, blind himself; that play is Sophocles' *Oedipus Rex*, first of his trilogy named after this place. This place was founded after dragon teeth were sown in the ground. A play by Aeschylus set in this place sees Eteocles and Polynices kill each other; that play is titled "Seven Against" this city-state. For 10 points, name this Greek city-state founded by Cadmus.**

ANSWER: Thebes <RY>

## **Bonuses**

1.

One of the Torture Memos was leaked shortly after revelations of events at this site. For 10 points each:

[10] Name this prison, one of many prisons run by General Janis (“YA-nis”) Karpinski. Charles Graner and Lynndie England were imprisoned for human rights abuses at this prison.

ANSWER: **Abu Ghraib** prison [prompt on but do not otherwise reveal **Baghdad Central** Prison; prompt on **Father of Raven** prison; prompt on **Place of Ravens**]

[10] Abu Ghraib, now known as the Baghdad Central Prison, is located in this country, which was once led by Saddam Hussein and which the U.S. military invaded in 2003.

ANSWER: Republic of **Iraq** [accept al-**Iraq**]

[10] Another controversy during the Iraq War occurred when George W. Bush made this speech saying that major combat operations in Iraq would be over, named for the controversial namesake banner behind Bush as he spoke.

ANSWER: the **Mission Accomplished** speech [accept the speech on the USS **Abraham Lincoln**] <DM>

2.

This character sometimes goes by the pseudonym Henry Flower. For 10 points each:

[10] Name this character who, according to his creator, does not have a romantic encounter with Gerty MacDowell as fireworks explode. In response to one question from this character, another remembers saying, “yes I will Yes.”

ANSWER: **Leopold** Bloom [prompt on **Bloom**]

[10] In the novel *Ulysses*, Leopold Bloom finally meets this character visiting Mina Purefoy in a maternity ward. This character is also the protagonist of *A Portrait of the Artist as a Young Man*.

ANSWER: **Stephen Dedalus** [accept either]

[10] *Ulysses* and *A Portrait of the Artist as a Young Man* are by this Irish author of *Dubliners*.

ANSWER: James **Joyce** <CL>

3.

For 10 points each, name these cold ocean currents.

[10] This cold current runs off the coast of Peru and is named after a German explorer who also laid the foundations for biogeography through his study of botany.

ANSWER: **Humboldt** Current (System)

[10] This cold current runs along its namesake coast, which was a British Dominion until 1949 and is inhabited by the Innu people.

ANSWER: **Labrador** Current

[10] This cold current runs along the west coast of the U.S. and helps keep the weather cool during West Coast summers. It flows down the coast of its namesake state, which contains the Central Valley.

ANSWER: **California** Current <DM>

4.

Transformers rely on this phenomenon to transfer electrical energy between circuits. For 10 points each:

[10] Name this phenomenon described by Faraday's law in which a conductor moves through a magnetic field, thus causing a current to flow. This phenomenon shares its name with a method of mathematical proof.

ANSWER: **induction** [accept word forms]

[10] The negative sign in Faraday's law of induction is given by a law named for this Russian physicist which states that the induced electromotive force and the magnetic flux are in opposite directions.

ANSWER: Heinrich (Friedrich Emil) **Lenz**

[10] An easy way to remember which way the current flows when a conductor moves through a magnetic field is this mnemonic. In this mnemonic, the thumb represents the direction of motion.

ANSWER: Fleming's **right-hand rule** for generators <BC>

5.

This choreographer's 1971 dance solo *Cry* was premiered by Judith Jamison and dedicated to "all black women everywhere — especially our mothers." For 10 points each:

[10] Name this modern dance choreography pioneer who produced his signature work *Revelations* alongside his namesake dance theater.

ANSWER: Alvin **Ailey**

[10] The Alvin Ailey American Dance Theater is based in this city, whose island of Manhattan hosted the theater's inaugural concert in 1958 at the 92nd Street Y.

ANSWER: **New York** City [accept **NYC** or equivalents]

[10] This New York-based composer wrote the music for Ailey's allegorical work *The River*, which includes sections titled "Vortex" and "Falls." This composer also played with saxophonist Johnny Hodges at the Cotton Club.

ANSWER: (Edward Kennedy) "Duke" **Ellington** <GA>

6.

Ancient mathematicians in this country classified numbers as enumerable, innumerable, and infinite. For 10 points each:

[10] Name this country where the archaeological sites of Dholavira and Lothal indicate that ancient people there had knowledge of weights, measures, and stellar movement.

ANSWER: Republic of **India** [accept **Bharat Ganrajya**]

[10] This theorem was discovered in India as well as in China, Mesopotamia, and Greece. This theorem states that the square of the length of the hypotenuse of a right triangle is equal to the sum of the squares of the legs.

ANSWER: **Pythagorean** theorem [accept **Pythagoras's** theorem]

[10] Jain mathematicians in India were also the first to use this concept in their calculations. This concept's early use has also been attributed to the Mayans.

ANSWER: the number **zero** [accept **shunya**; accept descriptions like a **symbol representing none**] <AJ>

7.

Here comes the sun! For 10 points each, name some sun deities.

[10] This Inca sun god was frequently depicted as a sun-disk, which appears on the flags of Peru and Argentina. He was married to his sister, the moon goddess Mama Killa.

ANSWER: **Inti**

[10] Sun gods of this country's mythology include Aten, around whom Akhenaten focused a new religion, and another named Ra.

ANSWER: Ancient **Egypt** [accept Arab Republic of **Egypt**]

[10] This sun goddess birthed three women from the sword of her brother, Susano-o, but angrily claimed that they belonged to Susano-o when he upstaged her by birthing five men from her necklace.

ANSWER: **Amaterasu** <RY/CL>

8.

Get wrecked. For 10 points each, name some ships which did.

[10] This British battlecruiser, considered the pride of the Royal Navy, was sunk by the German battleship *Bismarck* and cruiser *Prinz Eugen* in 1941 due to thin deck armor and a magazine explosion.

ANSWER: HMS **Hood**

[10] Many believe that British authorities deliberately baited a German submarine into sinking this ship by placing arms aboard. Either way, the death of 128 Americans aboard helped bring the US into the First World War.

ANSWER: RMS **Lusitania**

[10] Japanese forces believed they had sunk this ship on three different occasions, but it survived through the end of the war. It shares its name with the first nuclear-powered aircraft carrier and a fictional starship captained by Jean Luc Picard.

ANSWER: USS **Enterprise** <BL>

9.

The only thing better for your health than poetry is fruit. For 10 points each, name some things about both.

[10] Robert Frost writes, "I cannot rub the strangeness from my sight" in a poem titled "After [picking this fruit]." This fruit comes in varieties like Red Delicious and Gala.

ANSWER: **apples** [or "After **Apple**-Picking"; accept **Malus pumila** from over-achievers]

[10] In "This Is Just to Say," William Carlos Williams confesses to having eaten some examples of this fruit "that were in / the icebox / and which / you were probably / saving / for breakfast."

ANSWER: **plums** [accept **Prunus domestica** or **Prunus salicina** or **Prunus simonii**]

[10] Seamus Heaney's poem about picking this fruit recalls being sent out "with milk cans, pea tins, jam-pots" and laments, "Each year I hoped they'd keep, knew they would not." This fruit also titles a Yusef Komunyakaa poem.

ANSWER: **blackberries** [or **blackberry** or "**Blackberry**-Picking"; accept **Rubus**] <CL>



10.

In March 2018, President Trump said that another world leader had just assumed this role, but that perhaps the United States will “have to give that a shot some day.” For 10 points each:

[10] Identify this title, implicitly held by a certain world leader starting in February 2018. One person was given this title after dying in 1994.

ANSWER: **president for life** [accept **Eternal President** or **Eternal Leader**; prompt on descriptions; do not accept or prompt on “President”]

[10] This world leader recently consolidated power in China, effectively making a move to become President for Life. He is also the General Secretary of the Communist Party of China.

ANSWER: **Xi** Jinping

[10] Partially in order to target China, in 2018, President Trump announced that he would enact some of this type of policy. Many pundits think Gary Cohn resigned due to Trump’s interest in this type of policy.

ANSWER: **tariffs** [prompt on description; prompt on import **taxes**; prompt on **trade** policy and equivalents] <CL>

11.

For 10 points each, name the most famous works of some Scottish authors.

[10] Robert Louis Stevenson’s best-known work is arguably this novella which follows Gabriel John Utterson as he investigates his kind-hearted friend, who he discovers transforms into an evil man from time to time.

ANSWER: *(The) Strange Case of Dr **Jekyll** and Mr **Hyde***

[10] Another Scottish author wrote *The Admirable Crichton* (“CRY-ton”) but is most famous for writing a “fairy-play” about this character, who is featured alongside many characters from the Darling family.

ANSWER: **Peter Pan** [prompt on partial; prompt on The **Boy Who Wouldn’t Grow Up**]

[10] Yet another Scottish writer, Muriel Spark, wrote a novel titled for *The Prime of* this character, a teacher at the Marcia Blaine School for Girls in Edinburgh. This character selects a few girls as the crème de la crème.

ANSWER: Miss **Jean Brodie** [accept either] <CL>

12.

For 10 points each, name some things about the work of philosopher David Lewis.

[10] Lewis is best known for his theory that all possible ones of these things exist concretely, a view called modal realism. Gottfried Leibniz thought we were living in “the best of all possible” ones of these things.

ANSWER: **worlds** [accept **reality** or **realities**; accept **universes**; begrudgingly accept the best of all possible **worlds**; prompt on **outcome** and equivalents]

[10] A critique of Lewis’s modal realism put forth by Saul Kripke argues that a participant in one of these events only cares about the result that occurs in their own world. Arrow’s impossibility theorem concerns these events.

ANSWER: presidential **elections** [accept **votes** or **voting**]

[10] A 1973 book by Lewis examined these statements, such as “Had I made that shot our team would have won the game,” in modal realist terms, and argued statements are necessarily true if they are true in all possible worlds.

ANSWER: **counterfactuals** [or **counterfactual** conditionals; accept **counterfactual** statements] <CL>

13.

This man was born north of the Chimor empire of Mincanchaman. For 10 points each:

[10] Name this Sapa, whose generals Quisquis and Calcuchimac helped him defeat his brother Washkar. He became a potential heir after the appointed heir died in a 1525 smallpox epidemic and was ransomed for rooms of precious metals.

ANSWER: **Atahualpa**

[10] Atahualpa was the final ruler of this empire, which controlled the Western coast of South America in the 1500s. It was conquered by conquistadors led by Francisco Pizarro.

ANSWER: **Incan** Empire [accept **Tawantinsuyu**]

[10] This ninth Sapa Inca began the Incan expansion after defeating the Chanka invaders. He renamed himself the “Earth-Shaker” due to his military might.

ANSWER: **Pachakuti**q Inca Yupanki [accept **Cusi** Yupanki, do not accept or prompt on any non-underlined names] <DM>

14.

This composer’s String Quartet in E minor is his only surviving chamber work. For 10 points each:

[10] Name this composer of a *Messa da Requiem* that features an eight-part fugue for double chorus in the *Sanctus* and an extremely loud trumpet fanfare in the *Tuba mirum*.

ANSWER: Giuseppe (Fortunino Francesco) **Verdi**

[10] This section of Verdi’s requiem begins with four hammer-like chords, followed by *ffff* (“fortissississimo”) bass drum beats alternating with brass chords. Hector Berlioz quotes this liturgical hymn in the “Dream of a Witches’ Sabbath” from his *Symphonie fantastique*.

ANSWER: **Dies irae**

[10] The *Dies irae* melody is quoted in the main theme of *Sweeney Todd*, a musical by this New York-based composer who also wrote the lyrics to *West Side Story*.

ANSWER: Stephen (Joshua) **Sondheim** <GA>

15.

This group of elements is the namesake of a notation for electron configuration. For 10 points each:

[10] Name this group of elements found to the far right of the periodic table. They are extremely stable and include xenon and neon.

ANSWER: **noble gases** [accept **inert gases**; prompt on group **18**; prompt on partial]

[10] Although noble gases typically do not form compounds, xenon can bond with this element in several different ratios. It’s not carbon, but this element is also a component of Teflon.

ANSWER: **fluorine** [prompt on **F**; do not accept or prompt on “fluoride”]

[10] Xenon tetrafluoride has this molecular geometry as predicted by VSEPR (“vesper”) theory, because it has two lone pairs.

ANSWER: **square planar** [prompt on partial] <CL>

16.

One leader of this empire built a namesake library during the 600s BCE. For 10 points each:

[10] Name this empire once ruled by Ashurbanipal. Nebuchadnezzar retook Babylon from this empire centered at Ashur and Nineveh.

ANSWER: Neo-**Assyrian** Empire

[10] These people from Iran overthrew Assyria with the Babylonians and subsequently were defeated in 550 BC by the Achaemenid Empire. These people were led by Cyaxares and Astyages in northern Persia, where they had a capital at Ecbatana.

ANSWER: **Medes** [accept **Medians**; accept **Mada**]

[10] This leader led the Achaemenid victory over the Medians. According to the Bible, this leader liberated Jews held in Babylon.

ANSWER: **Cyrus the Great** [accept **Cyrus II** of Persia; accept **Cyrus the Elder**; prompt on **Cyrus** alone] <DM>

17.

For 10 points each, identify some things about the artist Grant Wood.

[10] Wood is best known for this painting of a stern couple based on his sister and dentist standing in front of a house with a pitchfork.

ANSWER: **American Gothic**

[10] In Wood's painting *Daughters of Revolution*, which is supposedly his only satirical work, three older women stand in front of *Washington Crossing the Delaware*, a painting by this German American artist of historical scenes.

ANSWER: Emanuel (Gottlieb) **Leutze**

[10] *Daughters of Revolution* satirizes the DAR members who complained that he used German materials for one of these works for a World War I memorial. One type of these works is named for Saint Catherine.

ANSWER: **stained glass** window [prompt on **window**] <CL>

18.

Tok Pisin is an example of these systems used in Papua New Guinea. For 10 points each:

[10] Identify these stable systems which often develop from pidgins and are contrasted with similar mixed or hybrid systems of the same type. One of these systems called Manglish is used in Malaysia.

ANSWER: **creole** languages [or **creoles**; accept but otherwise do not reveal English-based **creole** languages or English-based **creoles**]

[10] Haitian Creole is primarily based on a version of this Romance language. Along with English, this language is one of the official languages of Canada.

ANSWER: **French** [accept le **français**]

[10] Some creole languages, such as the United States's Gullah, incorporate these words, which are taken directly from a donor, unlike cognates. Examples in Gullah include "oonuh" for "you" and "benne" for "sesame."

ANSWER: **loanwords** <CL>

19.

For 10 points each, answer the following questions about genetic material.

[10] The genetic material found in this organelle is often used to assess matrilineal genetic relationships. The electron transport chain occurs on this organelle's inner membrane, and memes often refer to it as the "powerhouse of the cell."

ANSWER: **mitochondria** [or **mitochondrion**; begrudgingly accept **mitochondrial deoxyribonucleic acid** or **mitochondrial DNA** or **mtDNA**]

[10] This molecule made up of single-stranded genetic material contains anticodons which direct it to pick up specific amino acids during translation.

ANSWER: **transfer ribonucleic acid** [or **transfer RNA** or **tRNA**; prompt on **ribonucleic acid** or **RNA**]

[10] Another type of RNA, rRNA or ribosomal RNA, forms this subunit, which contains a hole through which mRNA passes during translation. This subunit checks for correct codon-anticodon pairings.

ANSWER: **small** subunit [or **SSU**; prompt on **S**] <AJ/CL>

20.

For 10 points each, name some works by the Ancient Greek comic playwright Aristophanes.

[10] In this perhaps best-known Aristophanes play, Dionysus attempts to bring the playwright Euripides back from the dead with the help of Xanthias. The title amphibians form the chorus with a refrain of "Brekekekèx-koàx-koàx."

ANSWER: *The **Frogs*** [accept ***Batrachoi***; accept ***Ranae***]

[10] In this play, the title character leads a group of women to refuse to have sex with their husbands until the end of the Peloponnesian War. A group of women take over the Acropolis in this play which also features Lampito.

ANSWER: ***Lysistrata*** [accept ***Lysistrátē***; accept ***Army Disbander***]

[10] This play opens with two slaves kneading dough and focuses on Trygaeus, who eventually marries Harvest and gossips with the title character after freeing her from a cave.

ANSWER: ***Peace*** [accept ***Eirēnē***] <CL>

TB.

John Ferrier's revenge quest takes him from Utah to London in this novel. For 10 points each:

[10] Name this detective novel, the first part of which details Ferrier's murderous exploits as a London cabbie.

ANSWER: ***A Study in Scarlet***

[10] *A Study in Scarlet* marks the first appearance of this archetypal pipe-smoking detective created by Sir Arthur Conan Doyle.

ANSWER: **Sherlock Holmes** [accept either]

[10] The character of Sherlock Holmes has been frequently adapted and repurposed by a variety of authors. In Mitch Cullin's *A Slight Trick of the Mind*, Holmes has retired to tend to these creatures, whose royal jelly he believes can cure dementia.

ANSWER: **bees** <AJ>