

2020 Terrapin Open

Packet 15

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Tossups

1. **W. F. Stutterheim attempted to map this empire's *kraton*, a palace with a large open *alun-alun lor* in front of it, based on the writings of its court poet Prapañca ("pruh-PUN-chuh"). This empire is the source of the world's first piggy banks. This empire eschewed the use of its own currency, instead using cheap copper coins from China named *picis*. This is the later of the two empires described in the *Pararaton*. This empire killed the Sundanese royal family after switching a marriage proposal to an offer for concubinage, a plan engineered by its Prime Minister (*) Gajah Mada. The *Negarakretagama* records the reign of this empire's king Wuruk Hayam, who ruled it from Trowulan. This empire became its region's dominant power after a failed punitive expedition against the Singhasari ruler Kertanegara was launched by Kublai Khan. For 10 points, name this Hindu empire in eastern Java.**

ANSWER: **Majapahit** Empire

<EL, World History>

2. **This functional group is thought to be responsible for the cytotoxic properties of the lomaiviticins and kinamycins. Rhodium tetraacetate catalyzes the reaction of electron-poor examples of this functional group with alkenes to generate cyclopropanes. Hans von Pechmann accidentally produced the first sample of polyethylene while investigating the simplest compound with this functional group; that compound reacts with an acyl chloride to generate the starting material for a (*) Wolff rearrangement into a ketene in the Arndt-Eistert homologation sequence. These functional groups can be introduced with transfer reagents like basic imidazole-1-sulfonyl azide. These neutral functional groups can be easily protonated to form salts that decompose to a carbocation and nitrogen gas. For 10 points, name these functional groups often represented as a carbon double bonded to N2.**

ANSWER: **diazo** group [do not accept or prompt on "azo," because those contain a bridging N2 group; do not accept or prompt on "diazonium," because those contain a positive charge]

<EM, Chemistry>

3. **A transcription of one of this composer's themes is the most prominent work performed by the piano duo Andrzej Panufnik and Witold Lutoslawski ("VEE-told loo-toh-SWAFF-skee"). That theme by this composer appears in a piece that was partially inspired by a set of "enigmatic" works by Pietro Locatelli. A series of piano studies based on a theme of this composer was dedicated to Carl Tausig ("TAO-zig") and called the "Witches Variations" by Clara Schumann. A melody by this composer is transformed down a semitone into G-sharp minor and begins with broken 16th-note high D-sharp (*) octaves in the right hand. This composer's theme "A, [pause] A A C B A high E" is inverted in the D-flat major 18th variation of a concertante piece. Brahms and Liszt used that theme by this composer in sets of *étude* variations. For 10 points, Liszt's "La campanella" and Rachmaninoff's *Rhapsody* were based on themes of what virtuoso violinist who composed 24 Caprices for Solo Violin?**

ANSWER: Niccolò **Paganini**

<KS, Classical Music>

4. **A novel titled for this animal contains a chapter that informs the reader that they have three hours to answer four questions on an exam whose first section is about literary criticism, while its second section**

includes topics like “philately” and “history (with astrology).” That novel contains a chapter documenting the items in a bestiary in which the narrator discusses a newspaper clipping describing how, after the death of one of these animals, Henri K lived in a tree; that episode was slated for inclusion in the novel (*) *Bouvard et Pécuchet* (“boo-VAR ay pay-koo-SHAY”). A novel titled for this animal includes a chapter formatted as a letter from Louise Colet, and a chapter in which the narrator presents his “Dictionary of Accepted Ideas.” In that novel, the narrator claims artifacts in the Hôtel-Dieu inspired a story where the Holy Spirit appears as one of these animals to the servant girl Felicité. For 10 points, Geoffrey Braithwaite narrates a Julian Barnes novel titled for what bird? ANSWER: stuffed **parrots** [accept *Flaubert’s Parrot*; prompt on birds]
<VS, British Literature>

5. During a 2014 election, this politician gave a speech at a pro-cockfighting rally where he called cockfighting part of the “heritage of [his] state.” After this politician stated that he would not allow Syrian refugees to resettle in his state, his adopted Ethiopian children were satirized as potential terrorists in a controversial cartoon. During a 2015 primary election, this man joined Mike Huckabee at a rally to celebrate the release of a clerk in his state, Kim Davis, who refused to grant marriage licenses to gay couples. This politician claimed that a 9-year-old victim’s (*) hymen was intact to justify pardoning Micah Culver Schoettle, a convicted child rapist. This politician led a 2014 primary challenge to Mitch McConnell and lost a 2019 bid for re-election after supporting an unpopular right-to-work law and cutting teacher pensions. For 10 points, name this former Republican governor of Kentucky who was defeated by Democrat Andy Beshear. ANSWER: Matt **Bevin** [or Matthew Griswold **Bevin**]
<JH, Modern World>

6. Gerald Edelman argued that a “secondary” type of this phenomenon arises from reentrant cortical loops. A mathematical model of this phenomenon based on a metric denoted phi quantifies the amount of information that can be integrated across a system’s weakest link; that model is Giulio Tononi’s Integrated Information Theory. Antonio Damasio proposed that this phenomenon’s “core” and “extended” types are preceded by the existence of a “protoself.” This phenomenon is distributed across parallel receiving processes in Bernard Baars’s “global (*) workspace model.” Christof Koch and Francis Crick argued that this phenomenon arises from binding through synchronous oscillation as part of a project to identify its “neural correlates.” This phenomenon only arises retrospectively according to the “multiple drafts” model, which rejects the “Cartesian theatre” metaphor. For 10 points, name this phenomenon whose “hard” problem concerns explaining qualia. ANSWER: **consciousness**
<CK, Social Science>

7. Events that [emphasize] *trigger* this broad process can be detected with the alkaline Comet assay or single-cell gel electrophoresis. ID complex ubiquitination facilitates a form of this process that depends on FA core recruitment by FAAP24 and FANCM. Hypersensitivity to ICLs occurs due to defects in that form of this process mediated by the fanconi anemia pathway. A bifunctional enzyme with AP lyase and glycosylase activities responds to (*) 8-oxoG in a form of this process more often triggered by spontaneous deamination. Microsatellite instability like that seen in Lynch syndrome arises from defects in a type of this process that proofreads and addresses mismatches following replication errors. For 10 points, name this broad process of remedying lesions like double strand breaks in a namesake genetic molecule. ANSWER: **DNA repair** [or **base excision repair**; or **mismatch repair**; prompt on DNA damage response]
<VS/JS, Biology>

8. *Description acceptable.* After this character asks “Why, is it such a bad thing to die?” her sister remembers how this woman asked not to go back home after they got lost on a mountain. This woman’s husband is deeply embarrassed when she refuses to wear a bra to a lunch meeting with company men. This woman

remarks, “I like my breasts, nothing can be killed by them” during one of her bloody dreams, another of which involves her father dragging a dog in circles behind his motorcycle. This character holds a bird with visible bite marks while sitting on a park bench (*) topless after fleeing a hospital. This woman has sex with an artist while they are both covered in painted flowers, consummating a desire sparked by this woman’s blue Mongolian spot. In the section “Flaming Trees,” In-hye (“een-heh”) discovers that this woman refuses to eat because she believes that she is a tree. For 10 points, name this character who titles a Han Kang (“hahn kahng”) novel.

ANSWER: Yeong-hye (“yung-heh”) [or *The Vegetarian*; accept the person who becomes vegetarian or similar; accept the protagonist of *The Vegetarian*, even though she isn’t clearly the protagonist]

<VS, World/Other Literature>

9. In a work by this artist, a chameleon looks up at a woman holding a palette, who is seemingly painting a rainbow. That work, *Colour*, is one of four ovals that this artist created for the ceiling of the Council Room. This artist is draped across another artist’s knee as a naked woman in black stockings frolics outside of St. Paul’s Cathedral in Nathaniel Hone’s *The Conjuror*, which this artist had rejected from the Summer Exhibition. This painter holds sheet music in a self-portrait at the age of 13, referencing a choice between (*) music and art that inspired a later self-portrait in which they are “hesitating” between the two. Johann Zoffany only painted half-finished portraits of Mary Moser and this artist, even though both were founding members of the Royal Academy. For 10 points, name this artist who depicted the mother of the Gracchi (“GRAH-kee”) pointing at her children in *Cornelia Presenting Her Children as Her Treasures*.

ANSWER: Angelica Kauffman [or Maria Anna Angelika Kauffmann]

<VS, Painting/Sculpture>

10. Trevor Bryce traced the origin of a class of these people’s priestesses to their roles as midwives, explaining their name *hasawas*, meaning “she at birth.” The archaeologist W. G. Hamilton discovered one of these people’s cities, whose south entrance is flanked by two sphinxes. 64 of these peoples’ gods are carved in procession in reliefs from Chamber A of the rock sanctuary at Yazilikaya. These people ruled an empire from a city that had been cursed by (*) Anitta, a ruler from Kussara who had razed that city in 1700 BC. A ruler of these people who ended the Amorite dynasty of Babylon was succeeded by a man who codified the rules of succession in the *Edict of Telepinu*. An empire ruled by these people achieved its territorial zenith under Suppiluliuma I (“SUP-il-oo-lee-OO-mah the first”). The world’s oldest peace treaty is recorded on tablets found in these peoples’ capital, Hattusa. For 10 points, name these people who fought the Battle of Kadesh against Ramesses II.

ANSWER: Hittites [accept Hittite Empire]

<EL, Other History>

11. *Description acceptable.* The non-isolated points that result from performing one type of this process on the natural numbers are very similar to the Parovicenko space. For a discrete space X , one example of this process can be visualized as constructing the set of all ultrafilters on X , where the elements of X correspond to principal ultrafilters. Almost-periodic functions can be studied by analyzing continuous functions on a space that has undergone a type of this process developed by Harald Bohr. Performing another type of this process on any discrete space yields a (*) Stone space. Adding a point at infinity to a Hausdorff space describes one type of this process called Alexandroff extension. Topological spaces that have undergone this process obey Tychonoff’s theorem. For 10 points, name this process of making a topological space into a space where every open cover of the space contains a finite subcover.

ANSWER: compactification [or word forms; accept making a space or set compact; accept Bohr compactification or Stone–Čech compactification or Alexandroff one-point compactification; accept creating or constructing from a topological space to a compact space]

<KS, Other Science: Mathematics>

12. *Two answers required.* These two concepts title an essay that likens the difference between them to the real image versus the retinal image of the Moon seen through a telescope. A Tyler Burge essay puns on the name of one of these concepts, which its coiner argued resides in a “third realm” and can be altered by “shading” and “colouring.” An essay titled for these concepts uses the example of three lines intersecting at the same point to illustrate how one of these concepts may be associated with different “modes of presentation.” A paper titled for these two concepts starts with an analysis of (*) equality, noting that “*a* equals *a*” has different cognitive significance from “*a* equals *b*.” A paper titled for these two concepts introduced a problem concerning how an individual can have different attitudes toward propositions with the same extension, using the example of “the morning star” and “the evening star.” For 10 points, name these two concepts that title a paper by Gottlob Frege (“FRAY-guh”).

ANSWER: sense AND reference [or Sinn AND Bedeutung] (The Tyler Burge essay is “Sinning Against Frege.”)
<CK, Philosophy>

13. An inscription at Dendera that depicts a snake emerging from a lotus on top of one of these objects is thought to resemble a lightbulb. That one of these objects was “raised” with ropes to begin the harvest season and is thought to represent a body part of Ptah and Osiris. After questioning whether a certain god really exists everywhere, a demon asks his son to prove that the god exists even in one of these objects, upon which that god emerges out of it in a half-lion, half-human form. The (*) *djed* is thought to be one of these objects, and the size-changing staff of Sun Wukong originally took the form of one of these objects. A god loses a head after he lies about seeing the end of an infinite one of these objects made of light. Two gods mated after circling one of these objects in opposite directions, resulting in the creation of Japan. For 10 points, eight mountains function as what tall structures that hold up the sky in Chinese mythology?

ANSWER: pillars [or columns; or celestial pillars; or pillar of heaven; accept pillar of fire or pillar of light; accept *djed* until read; accept *iyotirlinga*] (The demon and god mentioned in the third sentence are Hiranyakashipu and Vishnu’s Narasimha avatar, respectively; the god who lost his head mentioned in the fifth sentence is Brahma; the two gods mentioned in the sixth sentence are Izanagi and Izanami.)
<AP, Mythology>

14. A novel in this language includes a scene where the central characters, pretending to be Sigmund Freud and Gustav Mahler, pass by a bookstore whose window displays a copy of Alma Mahler’s diary. In another novel in this language, a Nazi collaborator named Fake (“FAH-kuh”) is shot while riding his bicycle, and his body is dragged to the house across the street to frame Anton’s family. Two angels discuss “The Plan” at the beginning of a novel in this language that centers on an unlikely friendship between the physicist (*) Max Delius and the philologist Onno Quist, who both fall in love with the cellist Ada. In another novel in this language, the Shawlman brings his former classmate Drystubble a document describing the abuses discovered by the title colonial governor. For 10 points, name this language used to write *The Assault* and *The Discovery of Heaven*, two novels by Harry Mulisch, and Multatuli’s novel *Max Havelaar*.

ANSWER: Dutch [or Nederlands]
<AP, European Literature>

15. In a style of music from this country’s northeast, singers and percussion including snares, cowbells, and gourd shakers accompany the parading of a *calunga* doll. In the *roda* form of a genre from this country, the third and fourth 16th notes in a beat arrive slightly early, creating a wonky microrhythm. “Schools” in this country for performing that genre are depicted in a film with music by Luiz Bonfá whose protagonist loves a woman stalked by a man in a (*) skeleton costume. A 20th-century genre from this country, often performed on flute, guitar, and the tambourine-like *pandeiro*, has a name meaning “cry.” Marcel Camus’s (“ka-MOO’s”) film *Black Orpheus* depicts this country. Charlie Byrd made an album titled for *Jazz* and a music genre from this country

with Stan Getz, who also worked with an artist from this country and his wife Astrud (“ah-STROOD”) on an album that includes Tom Jobim’s (“zho-BEEM’s”) song “Girl from Ipanema.” For 10 points, name this home country of samba whose bossa nova style gained fame through João Gilberto (“zh’wow zheel-BAIR-too”).

ANSWER: **Brazil** [or **Brasil**]

<ES, Other Arts: Music>

16. **At the beginning of this decade, the Ottomans established an exarchate (“ex-AR-kate”) that was first led by Anthim I; that exarchate’s attempted split from the Greek Patriarchate was declared a phylestic heresy two years later at a Council of Constantinople. Edwin Pears documented massacres that occurred during this decade via letters that were published in the *Daily News*. During a war in this decade, the *opalchentsi*, or “folk regiments,” led one side’s defence during a battle at the (*) Shipka Pass. An event in this decade that was brutally suppressed by bashi-bazouk irregular troops was the subject of a campaign against its “horrors” by William Gladstone. An agreement signed in this decade attempted to establish an autonomous Principality of Bulgaria, but was rejected due to the concern of great power leaders such as Benjamin Disraeli. For 10 points, the April Uprising occurred during what decade in which the Treaty of San Stefano was signed during the Congress of Berlin?**

ANSWER: **1870s**

<JL, European History>

17. **A Bogoliubov (“bo-go-LYOO-bov”) transform multiplies these objects by phases times \sinh (“sinch”) and cosh of a squeezing parameter. The normal ordering of products of these objects can be found using Wick’s theorem. The fermionic analogue of these objects anticommute with each other. (*) Fock states can be written as a combination of these operators applied to the vacuum state. A linear combination of the x and y angular momentum operators yields one of these operators, which act on a state to increase or decrease the m -sub- j quantum number. For 10 points, name these operators often denoted “ a ” and “ a -dagger” that describe addition or removal of one quantum of energy from a harmonic oscillator.**

ANSWER: **ladder operators** [or **creation** and **annihilation operators**; or **raising** and **lowering operators**;

“operators” is required until “operators” is read for the first time, but is not required after]

<GR, Physics>

18. **After one of these two states required people from the other to reimburse squatters, a three justice majority headed by Justice Bushrod Washington extended the Contract Clause to agreements between states; that case is *Green v. Biddle*. James Wilkinson attempted to make a Spanish vassal out of one of these two states at a series of conventions that were spearheaded by Isaac Shelby, who became the first governor of the newly created one of these two states. In one of these two states, (*) John Taylor of Caroline helped pass a series of documents named for both of them. Documents named for these two states first promulgated the doctrine of “nullification” in a series of arguments against the Alien and Sedition Acts. For 10 points, name these two states whose namesake Resolutions were written by Thomas Jefferson and James Madison.**

ANSWER: **Kentucky** AND **Virginia**

<EL, American History>

19. *Note to moderator: Read the answerline carefully.* **In rituals of the historical Vedic religion, the *udgātri* (“ood-GAH-truh”) priest was tasked with performing a form of this action. A 15th-century saint who performed this activity named Annamayya (“UH-nuh-may-yuh”) was believed to be an incarnation of Vishnu’s sword. Performing this action using the “five gems” of one of its forms brought fame to M. S. Subbulakshmi (“SOO-boo-luck-sh’mee”). It’s not ringing a bell, but when a certain ritual is performed in large groups, this action is usually performed while each family rotates a flame (*) clockwise in front of an idol. The Sāmaveda (“SAH-muh-vay-duh”) is meant to be understood through this action. Apart from its ritualistic definition, the word *aarti* may refer to a form of this activity that often uses the popular “Om Jai Jagdish Hare”**

(“ohm jay jug-DEESH huh-RAY”). Crowds may indulge in this activity’s *kīrtan* (“KEER-tun”) form, which is distinct from its *bhajan* (“BUH-jun”) form. For 10 points, group performances of what activity in Hindu temples are commonly accompanied by the harmonium or tabla?

ANSWER: **singing** [or **song**; or *Sāmagāna*; or *gītā*; accept **sankīrtana** or **bhajana** until read; accept **reciting** the **Sāmaveda** until “Sāmaveda” is read; accept **chanting** or **hymning**; prompt on **praying**; prompt on **music**; prompt on **vocalizing** or **ululating**; prompt on composing **poetry** or **poems** by asking “what activity is the poetry used for?”; prompt on **clapping** by asking “what action is done while clapping?”; do not accept or prompt on “playing an instrument” or “reading the Vedas”] (The “five gems” are the *Pañcaratna Krtis*, which were written by Tyāgarāja.)
<AP, Religion: Hinduism>

20. In a story by this author, the townspeople are shocked when a woman, who only appears in daylight to accompany funeral processions, knocks on the door to a deserted mansion, which is answered by a long-dead slave. He wrote a story that ends with a man ordering Edgar’s hair to be cropped in the “pumpkin-shell fashion” after interrupting the title event celebrating his marriage to Edith. This author created a character who shouts, “Dickon a coal for my pipe!” and animates a creature that destroys itself after causing Polly (*) Gookin to faint. That story centers on the witch Mother Rigby, who creates a living scarecrow. In another story, while traveling with a man whose book staff is shaped like a snake, the protagonist meets Deacon Gookin and Goody Cloyse in the woods who take him to a witches’ sabbath where he finds his wife Faith. For 10 points, name this author of “Feathertop,” “The May-Pole of Merry Mount,” and “Young Goodman Brown.”

ANSWER: Nathaniel **Hawthorne** (The first story mentioned is “The Old Woman in White.”)
<CK, American Literature>

Bonuses

1. Philippa Foot argued that morality rests not on this concept, but on a related “hypothetical” concept that only applies to individuals who desire to attain certain ends. For 10 points each:

[10] Name this ethical principle central to Kantian ethics that, in one form, states that one should act only according to maxims that can be made universal law.

ANSWER: **categorical imperative**

[10] Besides that version stated in terms of universalizability, Kant gave this other version of the categorical imperative, which states that agents should always treat others as ends in themselves.

ANSWER: **formula of humanity** [prompt on partial answers; accept word forms like **humanity formulation**]

[10] This Harvard neo-Kantian called the arguments in her best-known book a “fancy new model” of the formula of humanity. That book argues that moral obligations arise from what she dubbed “practical identities.”

ANSWER: Christine **Korsgaard** (The book is the *Sources of Normativity*.)

<CK, Philosophy>

2. A critic coined the term “banana Western” to describe a low-quality English translation of a novel set in this region, whose inhabitants venerate the mercenary Lampião as a folk hero. For 10 points each:

[10] Give the native word for this vaguely-defined region whose various English translations include “backlands” and “hinterland.” A book set in the region known by this word chronicles the brutal attempted uprising of the villagers of Canudos under a folk religious leader.

ANSWER: **sertão** (“sair-TAO”) [accept **sertanejos**; accept *Os Sertões*; accept **Caatinga**; do not accept or prompt on “agreste”] (The novel is *The Devil to Pay in the Backlands* by João Guimarães Rosa, and the book is *Os Sertões*, or *Rebellion in the Backlands*, by Euclides da Cunha.)

[10] The Nambikwara people title a section in this book that references da Cunha while exploring the sertão, which it translates as “bush.” This book opens by ironically expressing the author’s hate of “travel and travelers.”

ANSWER: **Tristes Tropiques** (“treest tro-PEEK”) [or *A World on the Wane*] (by Claude Lévi-Strauss)

[10] In two chapters of that same section of *Tristes Tropiques*, Lévi-Strauss contemplates the influence of writing and names on the Nambikwara; both chapters were “deconstructed” by this author in his book *Of Grammatology*.

ANSWER: Jacques **Derrida**

<AP, Other Academic>

3. Mexican poet Enrique González Martínez wrote a poem railing against this animal, calling it “deceptive” and suggesting that an owl would be a better symbol. For 10 points each:

[10] Name this animal, the subject of a sonnet explaining how it used to “sing only to die” but how a “Wagnerian” one sings “in order to live again.” That poem is included in the author’s *Cantos de Vida y Esperanza*.

ANSWER: **swans** [or “El **Cisne**” or “Los **Cisnes**”]

[10] This collection of mixed forms by the author of “El Cisne” was heavily inspired by the Parnassian movement. Its sections are “Cuentos en Prosa,” “En Chile,” and “El Año Lírico.”

ANSWER: **Azul**... [or **Blue**...]

[10] Juan Valera praised this author for his “*galicismo mental*” in utilizing “elements of the French spirit, while maintaining the Spanish form” throughout *Azul*. This Nicaraguan poet of “To Roosevelt” is considered the founder of *modernismo*.

ANSWER: Rubén **Darío**

<VS, World/Other Literature>

4. This water mass in the Southern Ocean is the densest water mass on Earth. For 10 points each:

[10] Name this slow-flowing water mass that is formed by cooling surface water in the Weddell and Ross Seas in polynyas (“paul-EEN-yahs”).

ANSWER: **Antarctic bottom water** [or **AABW**; accept **Weddell Sea bottom water**]

[10] The Antarctic bottom water is dense due to its low temperature and high value for this quantity, which rises due to sea ice formation. Brackish water has a higher value for this quantity than freshwater but a lower value than seawater.

ANSWER: **salinity** [or **salt concentration**; prompt on **saltiness**; prompt on **amount of salt** or similar answers]

[10] Formation of the Antarctic bottom water is one form of this process, which happens as surface water cools and sinks. Due to the key role of this process, the thermohaline circulation is also called the “meridional [this process] circulation.”

ANSWER: **overturning** [accept meridional **overturning** circulation]

<GR, Other Science: Earth Science>

5. 20,000 orphans in this province were wrongly certified as mentally ill to allow for misappropriation of government funds during a period known as the *Grande Noirceur*. For 10 points each:

[10] Name this province led then by Maurice Duplessis (“doo-play-SEE”). Jean LeSage began its Quiet Revolution.

ANSWER: **Quebec**

[10] People of this faith were persecuted during Duplessis’s regime, which included an attempt to suppress their literature stopped by *Saumer v. Quebec*. Duplessis unlawfully revoked Frank Roncarelli’s liquor license for paying bail for hundreds of these people.

ANSWER: **Jehovah’s Witnesses**

[10] Duplessis clashed with this leader over the Murdochville strike. He described his support for the rights of Canadian minorities and indigenous peoples with the phrase “Just Society.”

ANSWER: **Pierre Trudeau** [prompt on **Trudeau**]

<EL, Other History>

6. One of these poems describes dough as “something that grows in a corner, swelling and standing up, lifting up its covering,” which “a proud-minded woman gripped with her hands.” For 10 points each:

[10] Name this kind of Old English poem, many of which are collected in the Exeter Book. They often end with an instruction to “say what I am called.”

ANSWER: **riddles**

[10] The Exeter Book contains this poem whose title figure declares that though the “solitary looks for the favor of fortune,” the “exile’s fate is decreed for him.” Its narrator reflects on his days serving as a retainer to his lord.

ANSWER: *The Wanderer*

[10] *The Wanderer*, like *Beowulf*, includes a depiction of the “beasts of battle,” a poetic trope in which these three animals accompany warriors to feast on the bodies of the slain. Name any two of those animals.

ANSWER: **wolf** OR **raven** OR **eagle** [accept any two; prompt on **bird**]

<CK, British Literature>

7. Mark Rothko supposedly sat for hours staring at an Henri Matisse painting titled for this quality that the MoMA had recently acquired. For 10 points each:

[10] Name this quality. Rothko is concerned that the blackness of his paintings will “swallow” this quality in a 2009 John Logan play titled for this quality.

ANSWER: being **red** [or **redness** or equivalents; accept **Red Studio**; prompt on **color** by asking “which color?”]

[10] Logan’s play *Red* depicts Rothko creating a set of murals for this building. In real life, Rothko donated the series after learning the paintings would be hung in this building’s Four Seasons restaurant, rather than its lobby.

ANSWER: **Seagram Building**

[10] Rothko co-wrote a letter considered the manifesto of Color Field with this artist, who also authored the letter that the Irascibles sent to the Met. Sun-like colorful orbs float over fields of thick black brushstrokes in his series *Bursts*.

ANSWER: Adolph **Gottlieb**
<CK, Painting/Sculpture>

8. A famous target of this event was the journalist Wang Shiwei, who wrote an article criticizing Mao's sexual appetites titled "Wild Lilies." For 10 points each:

[10] Name this event in which Mao Zedong targeted Wang Ming and the Twenty-Eight Bolsheviks, who believed in a Soviet-style urban revolution, after retreating to the namesake city in Shaanxi ("shahn-shee").

ANSWER: Yan'an **Rectification** Movement [or Yán'ān **Zhěngfēng** Yùndòng]

[10] After the Fifth Encirclement captured the Jiangxi Soviet, Mao began this strategic retreat from the Kuomintang, which ended in Yan'an.

ANSWER: **Long March** [or **Chángzhēng**]

[10] During the Long March, Zhang Guotao's Fourth Red Army was destroyed by this clique consisting of three Muslim families who controlled Qinghai ("ching-hai"), Gansu, and Ningxia ("ning-sh'yah") during the Chinese Civil War.

ANSWER: **Ma** clique [or **Three Mas**]

<CK, World History>

9. *Note to moderator: Read the answerline carefully.* Prior to the church's adoption of this term, it was used by the Sabellians to describe the belief that there are three distinct modes of God. For 10 points each:

[10] Name this Greek term that Athanasius of Alexandria successfully argued should be part of the Nicene Creed to describe the fact that the Father and the Son are the same substance.

ANSWER: **homoousios** ("ho-mo-OO-see-os") [accept word forms like **homoousion**; do not accept or prompt on "homoiousios"]

[10] Athanasius of Alexandria petitioned for the inclusion of the term *homoousios* in the Nicene Creed because of his feud with this Libyan who preached that Christ was subordinate to God.

ANSWER: **Arius**

[10] This Cappadocian Father, the brother of Saint Basil the Great, defended the *homoousion* from Aristotelian criticism in his book *Against Eunomius*. He argued in favor of universalism, the view that God will save all people.

ANSWER: **Gregory of Nyssa** [prompt on **Gregory**]

<CK, Religion: Christianity>

10. The radioactive cobalt used in this experiment was deposited on a cerium magnesium nitrate crystal and cooled through adiabatic demagnetization. For 10 points each:

[10] Name this experiment devised by Lee and Yang along with its namesake to help resolve the tau-theta puzzle.

ANSWER: **Wu** experiment [or Chien-Shiung **Wu**'s experiment]

[10] The cobalt-60 nuclei in the Wu experiment underwent this decay process, releasing an electron and an antineutrino. This type of decay changes the atomic number but not the mass number.

ANSWER: **beta** decay [or **beta**-minus decay]

[10] Wu's measurements showed that parity was not conserved because nuclear angular momentum is this type of quantity that does not change sign under mirror transformations; in contrast, the electron's linear momentum is a polar vector.

ANSWER: **pseudovector** [or **axial vector**]

<GR, Physics>

11. In a sexually-charged scene from this play, John spits at two characters after he finds them hiding in a closet and watching as Ramon interrogates him while tied to a chair. For 10 points each:

[10] Name this play that ends with the central characters rehearsing for a drag production of *Swan Lake*.

ANSWER: **Love! Valour! Compassion!**

[10] John's twin brother James suffers from this disease in Terrence McNally's *Love! Valour! Compassion!* Roy Cohn contracts this disease in Tony Kushner's play *Angels in America*.

ANSWER: HIV/**AIDS** [or **HIV/AIDS**]

[10] The 1992 play *The Destiny of Me* continues this play, which ends with Dr. Emma Brookner marrying the protagonist, Ned Weeks, to the AIDS-stricken reporter Felix Turner.

ANSWER: *The **Normal Heart*** (by Larry Kramer)

<CK, American Literature>

12. Incredibly, this composer lived long enough to write one of the first film scores, *The Assassination of the Duke of Guise* ("gheez"). For 10 points each:

[10] Name this conservative composer who led revivals of Bach, Handel, Mozart, and Rameau in France. His suite *The Carnival of the Animals* quotes his own *Danse macabre* ("donse mah-COB").

ANSWER: Camille **Saint-Saëns** ("kuh-MEE san-SAWNS")

[10] Saint-Saëns opens this two-part C minor piece with a soft string swell on the chord F A-flat D-flat suspended to an F minor triad, before a cyclic theme whose first 5 doubled 16th notes resemble the Dies Irae. It ends with a slow descending C major scale in a very low octave before a majestic C major chord supported by timpani hits.

ANSWER: **Organ Symphony** [or **Symphony No. 3** in C minor "avec orgue"; prompt on **Saint-Saëns 3**]

[10] The Organ Symphony starts with this type of chord, a major triad usually in first inversion rooted on the flat supertonic. Chopin's Ballade in G minor opens by arpeggiating A-flat major, which is one of these Phrygian pre-dominant chords.

ANSWER: **Neapolitan** sixth chord [or **Neapolitan** chord; prompt on **N** or **N6**; prompt on **sixth** chord; do not accept or prompt on "augmented sixth chord"]

<OL, Classical Music>

13. Howard Zinn actively encouraged jury nullification while testifying as an expert witness for the Camden 28, who were charged with breaking into one of these places. For 10 points each:

[10] Name these places. Catholic priests Daniel and Phillip Berrigan were arrested for pouring homemade napalm over documents taken from one of these places in Catonsville, Maryland.

ANSWER: **draft boards** [or **draft offices**; or **selective service offices**; accept equivalents that mention the **draft** or **selective service**]

[10] Daniel and Phillip Berrigan were founding members of this anti-war Catholic movement, which took its name from a passage in the Book of Isaiah.

ANSWER: **Ploughshares** Movement

[10] As one of the Harrisburg Seven, Phillip Berrigan was indicted along with five other Catholic priests and nuns for conspiring to kidnap this National Security Advisor and future Secretary of State to Richard Nixon.

ANSWER: Henry **Kissinger**

<CK, American History>

14. Indenyl ligands ("LIG-unds") can decrease their value for this quantity from five to three to accelerate organometallic substitution reactions by allowing an associative mechanism. For 10 points each:

[10] Name this quantity symbolized η . It equals the number of carbon atoms in a ligand that are bonded to a metal atom.

ANSWER: **hapticity**

[10] Indenyl ligands were joined by one of these linkages in Brintzinger's system for producing isotactic polypropylene by Ziegler-Natta polymerization. These linkages join two cyclopentadienyl rings bonded to the same central atom.

ANSWER: **ansa**-linkages

[10] Brintzinger's systems produced isotactic polypropylene because they were in the C₂ point group, meaning that they only had a two-fold axis of this kind of symmetry.

ANSWER: **rotational** symmetry

<EM, Chemistry>

15. In this task's classic presentation, participants are given four cards whose visible faces show 3, 8, red, and brown, and are then asked what cards should be flipped, to test the proposition that if a card shows an even number on one face, then its opposite face is red. For 10 points each:

[10] Name this task that shows that most people fail to reason using either *modus ponens* or *modus tollens*.

ANSWER: **Wason** selection task

[10] These two evolutionary psychologists found that participants performed markedly better on the Wason task if the problem was stated in terms of social relations. Together with Jerome Barkow, they critiqued the Standard Social Science Model in their book *The Adapted Mind*.

ANSWER: Leda **Cosmides** ("KOZ-mid-eez") AND John **Tooby**

[10] Cosmides and Tooby argue that the Standard Social Science Model is rooted in this psychological tradition associated with John Watson and B. F. Skinner, which emphasized studying observable actions.

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

<CK, Social Science: Psychology>

16. In a story by this author, a train called the "Slowpoke Express" without a conductor miraculously runs out of steam following an argument between Berl and a Russian priest. For 10 points each:

[10] Name this author of the *Railroad Stories* who introduced a recurring character in a story in which he "strikes it rich," receiving a cow for escorting a wealthy woman and her daughters to Boiberik.

ANSWER: Sholem **Aleichem** ("SHAW-lum uh-LAY-khim") [or Solomon Naumovitz **Rabinovitz**; or Solomon Naumovich **Rabinovich**]

[10] Tevye ("TEV-yeh") the Milkman was created by Aleichem, who wrote in this hybrid language used by Isaac Bashevis Singer and other Ashkenazi Jews.

ANSWER: **Yiddish**

[10] Aleichem created this hapless businessman who squanders Tevye's savings in a get-rich-quick scheme. In a collection of letters, this man's wife Sheyne-Sheyndl ("SHAY-neh SHAYN-dle") alleges that his initials stand for "money maniac."

ANSWER: Menachem **Mendl** [or **Menachem** Mendl]

<AP, European Literature>

17. The director of this film used real prostitutes and pimps in a scene in which the main character is convinced by Bobby to try gay sex work. For 10 points each:

[10] Name this film directed by Lino Brocka in which Júlio comes to the title city in pursuit of his fiancée Ligaya, who was tricked into a prostitution ring. After her murder at the hands of Ah-Tek, Júlio kills him with an ice pick.

ANSWER: **Manila in the Claws of Light** [or **Maynila, sa mga Kuko ng Liwanag**]

[10] Brocka's *Manila in the Claws of Light* has been restored by this director's non-profit organization, the World Cinema Project. This man directed *Mean Streets* and *Taxi Driver*.

ANSWER: Martin **Scorsese** ("scor-SAY-zee")

[10] The WCP restored a film from this nation that ends with the protagonist wrecking his beloved motorcycle, titled *Touki Bouki*. Diouana works as a servant for a wealthy French couple in another film from this nation, *Black Girl*.

ANSWER: **Senegal** (The directors are Djibril Diop Mambéty and Ousmane Sembène.)

<JH, Other Arts: Film>

18. Ivar Aasen's compilation of *landsmål* ("LONDS-mole") laid the foundation for one of these two dialects, which is merged with its country's written language in *sammorsk*, a proposal opposed by supporters of the conservative *riksmål* ("REEKS-mole"). For 10 points each:

[10] Name either of these two dialects of a Scandinavian language. The debate between these two dialects emerged from a nationalistic debate following the dissolution of a union between the country they're spoken in and its neighbor in the Treaty of Kiel.

ANSWER: **Nynorsk** ("NEW-norsk") AND **Bokmål** ("BOOK-mole")

[10] The Norwegian language debate emerged following the dissolution of Norway's union with this country. This country's Queen Margaret I initiated the Kalmar Union with its northern neighbors.

ANSWER: **Denmark** [or Kingdom of **Denmark**]

[10] The Norwegian language debate erupted after Norwegian elites began favoring an independent language during Norway's union with Sweden under this royal family, established by a Napoleonic general who took the regnal name Charles XIV.

ANSWER: House of **Bernadotte**

<EL, European History>

19. Answer the following about the role of sea creatures in studying the nervous system, for 10 points each.

[10] Two answers required. This pair of researchers developed a set of differential equations to explain how action potentials propagate through squid giant axons. They shared the 1963 Nobel Prize with John Eccles ("ECK-ulls").

ANSWER: Alan **Hodgkin** AND Andrew **Huxley** [accept **Hodgkin-Huxley** model]

[10] Eric Kandel won the 2000 Nobel Prize for his studies on the gill-and-siphon withdrawal reflex and memory formation in a member of this phylum, *Aplysia californica*. Squids also belong to this phylum.

ANSWER: **mollusks** [or **Mollusca**]

[10] Lamprey swimming is a prototypical behavior controlled by these autonomous groups of neurons, which can fire rhythmically even without rhythmic inputs. In humans, they control movements like walking and breathing.

ANSWER: **central pattern generators** [or **CPGs**; prompt on **spinal networks**]

<VS, Biology>

20. Until 1968, Saudi Arabia eschewed these constructs in favor of setting all the clocks in the country to midnight at sunset. For 10 points each:

[10] Name these regions that observe a uniform offset from Greenwich ("GREN-itch") Mean Time. The contiguous United States is divided into four of these areas, the concept of which is often credited to Canadian engineer Sandford Fleming.

ANSWER: **time zones**

[10] This archipelago observes an unusual GMT+12:45 time zone. Its indigenous Moriori people were nearly exterminated in the Musket Wars.

ANSWER: **Chatham** Islands [or **Rehoku** or **Wharekauri**]

[10] The Chinese government's decision to use one time zone across the whole country means that local noon at this westernmost city in China occurs at three in the afternoon. This terminus of the Karakoram Highway is the second-largest city in Xinjiang ("shin-jyong") after Ürümqi ("uh-rum-CHEE").

ANSWER: **Kashgar** [or **Kashe**]

<EM, Modern World>