

Bulldog High School Academic Tournament 2021 (XXX): “I feel like ACF Regionals 2021 is a confusing subtitle for a set that’s not ACF Regionals 2021.”

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Packet 9 Tossups

1. **In Lagrangian mechanics, the action has the same units as this quantity. This quantity is denoted J in the Kerr metric, which describes an uncharged black hole for which it is nonzero. For a planet, dividing one type of this quantity by 2 times mass gives the areal velocity, which is fixed according to Kepler’s second law. That type of this vector quantity equals “ $m r$ -squared (*) omega” and points out of the plane of motion. A gyroscope remains upright due to the conservation of this quantity, which equals moment of inertia times angular velocity. For 10 points, the cross product of position and momentum equals what rotational analogue of momentum?**

ANSWER: **angular momentum** [or **rotational momentum**; prompt on L; do **NOT** accept or prompt on “momentum” or “linear momentum”] (SE)

2. **In a film from this country, a naked man whips around a curtain rod before proclaiming that “martial arts saved his life.” A cinematographer from this country won the Academy Award for his work in 2014’s *Birdman*. A film set in this country produced controversy when a company attempted to trademark a (*) holiday. The 2018 Academy Award for Best International Film went to one from this country which followed the indigenous housekeeper Cleo, played by Yalitza Aparicio. In a 2017 animated film set in this country, Miguel sings “Remember Me” to his great-grandmother, Coco. For 10 points, name this home country of directors Alejandro G. Iñárritu and Alfonso Cuarón.**

ANSWER: **Mexico** [or United **Mexican** States; or Estados Unidos **Mexicanos**] (ST)

3. **This ruler executed Artavasdes II of Armenia in a desperate gamble for help from Artavasdes I of Media Atropatene. The eunuch Pothinus convinced this ruler’s brother to start a civil war in alliance with an older sister, Arsinoe IV, whom this ruler then had killed on the steps of the Temple of Artemis. This ruler famously arrived at a diplomatic meeting at Tarsus in a two-story palace barge. This ruler’s children, including (*) Cesarion, were given titles during the Donations of Alexandria. At the Battle of Actium, Octavian defeated this queen and her lover Marc Antony. For 10 points, name this last pharaoh of Egypt, who probably didn’t actually commit suicide via asp bite.**

ANSWER: **Cleopatra** VII Philopator (HK)

4. **Dian Cecht [“DEE-un kekt”] crafts one of these objects after the First Battle of Magh Tuireadh [“MOY TEE-rah”]. Sūn Wùkōng urinates on a pillar before discovering he has failed to escape one of these objects belonging to the Buddha. Nuada reassumes kingship of the Tuatha Dé Danann after acquiring a silver example of these objects. An eye appears at the center of these objects in (*) *hamsa* amulets meant to ward away evil. One creature agrees to be bound by Gleipnir only if a god places one of these objects in his mouth. The Hecatoncheires [“heck-ah-TONE-kay-race”] have fifty heads and one hundred of these body parts. Fenrir bites off, for 10 points, what body part belonging to Tyr?**

ANSWER: **hands** [accept **fingers** or **palms** or **arms**] (AY)

5. In a poem by this author, a boy cries when his curly hair is shaved and dreams about boys locked in black coffins. In another poem, this author blames “God and his Priest and King” for “[making] up a heaven of our misery.” This poet “sunned” an object in “deceitful wiles” before seeing his foe dead under the title (*) “Poison Tree.” In a poem by this man, “a little black thing among the snow” “[cries] out ‘weep! ‘weep!’ in notes of woe.” This author of “The Chimney Sweeper” addressed an animal “burning bright in the forests of the night” in another poem. For 10 points, name this English poet who paired “The Lamb” with “The Tyger” in *Songs of Innocence and Experience*.

ANSWER: William **Blake** (HK)

6. Folk songs like *Tico-Tico* from this country appear alongside a rondo theme cycling through different keys in Darius Milhaud’s *Le bœuf sur le toit*. The song “Rend the Heart” derives from the tenth *chôro* [“shoro”] by a composer of this country. That man fused this country’s popular music with Baroque counterpoint in a suite depicting “The Little Train of the Caipira,” one of nine (*) *Bachianas* of this country. Stan Getz collaborated with Astrud and João [“ZHOO-ow”] Gilberto on “The Girl from Ipanema,” in this country’s *bossa nova* style derived from samba music. For 10 points, name this home country of Heitor Villa-Lobos, who was born in its capital city of Rio de Janeiro.

ANSWER: **Brazil** [or Federative Republic of **Brazil**; or República Federativa do **Brasil**] (MGS)

7. A philosopher who believed in these objects wrote that properties which are “by convention sweet [or] bitter” are, “in reality,” these objects. Stephen Greenblatt titled a book after the idea that the *clinamen*, or “swerve,” experienced by these objects explains free will. The Epicurean philosopher (*) Lucretius described the world as consisting of these things and “void” in his poem *On the Nature of Things*. A student of Leucippus known as the “laughing philosopher” referred to these objects with a word that translates as “uncuttable.” Democritus’s theory of these things was adapted to science by John Dalton. For 10 points, name these fundamental, indivisible particles of matter.

ANSWER: **atoms** [or *atomon*; accept **atomism** or **atoms** and void] (MGS)

8. This body of water was formed during a glacial retreat 10,000 years ago, when Lake Minong absorbed its western neighbor. Copper deposits around this body of water were most extensively mined on its Keweenaw Peninsula. French Jesuit missionaries referred to this body of water as Lac Tracy, while its Ojibwe name is (*) Gichi-Gami. The SS *Edmund Fitzgerald* sank in this lake near its arm of Whitefish Bay, which drains into the St. Marys River between the two cross-border cities of Sault Sainte Marie [“SOO-saint-muh-REE”]. The cities of Thunder Bay and Duluth and the island of Isle Royale abut, for 10 points, what largest of the Great Lakes?

ANSWER: Lake **Superior** [accept **Gichi-Gami** or **Kitchi-Gami** before “Gichi-Gami” is read] (DR)

9. In this novel, Pastrini relates how Teresa’s bandit husband once set fire to a nobleman’s mansion to steal her a gown. Franz dreams he is seduced by three “marble goddesses” after eating hashish offered by this novel’s title character, and later breaks off an engagement when the mute Noirtier reveals he killed Franz’s father. (*) Caderousse receives a diamond from a man variously disguised as “Lord Wilmore” and “Sinbad the Sailor” in this novel. After escaping from the Chateau d’If, this novel’s protagonist uses the Abbe Faria’s treasure to plot against the men who framed him as a Bonapartist. For 10 points, name this Alexandre Dumas novel about the revenge of Edmond Dantes.

ANSWER: *The **Count of Monte Cristo*** [or *Le **Comte de Monte-Cristo***] (DS)

10. **August Köhler names a method of using these devices that removes artifacts in the final result by using a field diaphragm. Werner Heisenberg used a theoretical one of these devices to intuitively explain the uncertainty principle in terms of classical phenomena. Oil immersion and instruments with high numerical (*) aperture are used in the “dark-field” type of these devices, since they block the unscattered incident beam. These devices use condensers to focus light on the mounted specimens. Antonie van Leeuwenhoek is considered the “father” of, for 10 points, what lab instrument with simple and compound varieties that magnifies objects invisible to the naked eye?**

ANSWER: **microscopes** [accept **microscopy**] (MGS)

11. **This director cast Edie Sedgwick in *Poor Little Rich Girl*. With Paul Morrissey, this director created a split screen film about residents of the title hotel in “Chelsea Girls.” Another of this director’s films compiles eight hours of footage of the Empire State Building. This producer misplaced a play given to him by (*) Valerie Solanas, who later shot him in a murder attempt. This man coordinated *Exploding Plastic Inevitable* events featuring the band The Velvet Underground. Many of this artist’s films and pieces were made at the Factory. This artist used an image from the movie *Niagara* in another work. For 10 points, name this pop artist of a silkscreen diptych of Marilyn Monroe.**

ANSWER: Andy **Warhol** [or Andrew **Warhola**] (MGS)

12. *Description acceptable.* **A document enacting this policy promised silver for turning in *bateren*, whom it forced to step on sacred images. This policy ended a period named for “southern barbarians.” A weapon named for that period’s 1543 point of introduction remained in fashion due to this policy. That gun was the arquebus of Tanegashima. (*) Dutch Learning, an exception to this policy, occurred at Dejima. This policy, which ended after the arrival of the black ships, attempted to reduce Christian influence over *daimyo*. In 1854, Commodore Matthew Perry employed gunboat diplomacy to end this policy. For 10 points, identify this policy which closed the borders of a country with capital at Tokyo.**

ANSWER: **Japanese isolationism** [or *sakoku*, or *kaikin*; accept “**closed country**”; accept **Tokugawa** shogunate or **Edo** period for “Japan”; prompt on **isolationism** alone; accept answers about the **persecution of Christians** before “southern barbarians” is read] (DS)

13. **This city names a conflict that began with a preemptive strike on Philippsburg, a bridgehead across the Rhine, and continued an expansion program begun by the War of Devolution. That conflict coincided with the Glorious Revolution and ended with the Treaty of Ryswick. Philip Melancthon wrote the Augustan (*) Confession for a meeting in this city. The Fuggers, the richest banking family ever, were based in this city. An agreement signed in this city accepted *cuius regio, eius religio* but legally excluded Calvinism until the Peace of Westphalia revised it. For 10 points, name this German city, the site of a 1555 “peace” that ended a war between Catholics and Lutherans.**

ANSWER: **Augsburg**, Germany [accept Free Imperial City of **Augsburg**] (DM)

14. Don DeLillo's *Point Omega* begins and ends with a man doing this activity in an art gallery for 24 hours. Binx Bolling is called a person who does this in the title of a Walker Percy novel, and Tom Wingfield claims to do it every night in *The Glass Menagerie*. In a novel, a Quebecois separatist group plans to distribute James (*) Incandenza's "samizdat" to kill Americans by making them addicted to this activity. In *Brave New World*, the sense of touch is incorporated into this activity to produce "feelies" like *Three Weeks in a Helicopter*. For 10 points, characters in David Foster Wallace's *Infinite Jest* are unable to stop doing what activity after turning on "the Entertainment"?

ANSWER: watching a **movie** [or going to the **movies**; or equivalents; accept **films** or synonyms for "movies"; accept *The Moviegoer*; accept watching *24 Hour Psycho*; accept watching **feelies**, the **samizdat**, the **Entertainment**, or *Infinite Jest* before respective mention, and ask "can you be less specific?" after; prompt on answers about "watching a video" or "going to a theater" without specifying what kind; do **NOT** accept or prompt on "watching television"] (DS)

15. The FJMC created a yellow one of these items as a symbol for Yom HaShoah. Many participants look at their fingernails when blessing one of these objects during a Havdalah service. At the end of a weekly blessing for these items, the words "shel yom tov" are said on most holidays in place of "shel Shabbat," which follows the phrase "lehadlik ner." One of these items made for a (*) *yahrzeit* is used on the eve of Yom Kippur, while a braided one is used only on Saturday evenings. A "helper" one of these objects called a *shamash* is set apart from a group of these objects that increases in number each night of a certain holiday. For 10 points, up to nine of what items are lit on a Hanukkah menorah?

ANSWER: **candles** [accept **ner** until mention, and prompt afterwards by asking "what is that in English?"; prompt on **fires**, **flames**, or **lights** by asking "what items do those come from?"] (DR)

16. Forming clathrate "cages" around elements of this group helps to fractionally distill them. One member of this group cuts the proportion of nitrogen in scuba divers' trimix gas, minimizing risk of decompression sickness. One of these elements is a more potent and more expensive anaesthetic than nitrous oxide. Neil (*) Bartlett reacted platinum hexa-fluoride with one element in this group to yield a square planar compound. Shorthand electron configurations use an element of this group in brackets. These elements have the highest ionization energies since their valence shells are full. For 10 points, name this inert group of elements including helium and xenon.

ANSWER: **noble gases** [or group **18**; or group **8A**] (MP)

17. Clara Peeters' reflection is visible in many of her works in this genre, which Rachel Ruysch also specialized in. Francisco de Zurbarán's only signed work in this genre is interpreted as a tribute to the Virgin Mary. A table under a white tablecloth in another painting of this genre is viewed as a precursor to (*) Cubism for its portrayal of simultaneous perspectives through the misaligned edges. One subgenre of this kind of painting emphasizes the ephemerality of life through skulls; those *memento mori* appear in *vanitas* paintings. Cezanne's *Basket of Apples* also exemplifies this artistic genre. For 10 points, name this genre of painting that focuses on inanimate objects.

ANSWER: **still lifes** (AY)

18. In one incident, this man was protected by Tim McCarthy and Thomas Delahanty while returning from an engagement at the Washington Hilton. This man received support from the NRA in signing the Mulford Act, which regulated firearms. Alexander Haig controversially stated "I am (*) in control here" after an attack on this man. This man advocated for a gun control bill named after his press secretary, Jim Brady. A man obsessed with Jodie Foster and *Taxi Driver* tried to shoot this man, who signed a gun control act targeting the Black Panthers while governor of California. John Hinckley Jr. attempted to assassinate, for 10 points, what American actor-turned-president?

ANSWER: Ronald (Wilson) **Reagan** (MGS)

19. **A distributed computing puzzle game with 240,000 players developed by the University of Washington helps solve problems related to this process. An impossible timescale for this process is implied by Levinthal's paradox, which contradicts the results of a study involving RNase A and beta-mercaptoethanol that led to the development of (*) Anfinsen's dogma.** Hydrogen bonding contributes surprisingly little to this process, while the hydrophobic effect is a much stronger entropic driver. Chaperonins in the ER aid in this process, and defects in this process can cause prion formation. For 10 points, name this process by which proteins acquire tertiary, three-dimensional structure.

ANSWER: protein **folding** [prompt on any answers about formation of protein structure] (HK)

20. **An adaptation of this play by Anne Carson adds a mute role named Nick and has one character enter on a powerboat to parody its line "my countrymen, the ship of state is safe." In this play, the chorus declares "the world's wonders are numberless, but none are more wonderful than man." An adaption of this play attacking the Vichy regime was written by Jean Anouilh ["ah-NOO-yuh"]. In this play, (*) Haemon kills himself after seeing his fiancée's body hanging in a cave, fulfilling Tiresias' prophecy to the king. In this play, Creon forbids the title character to bury her brother Polyneices.** For 10 points, name this play by Sophocles about a daughter of Oedipus.

ANSWER: ***Antigone*** (DS)

Tiebreaker

A 309–307 BC invasion of Cyrenaica was undertaken by Agathocles from this modern-day country. The tyrant Gelon ruled in this country. Hermocrates and Gylippus defended one city in this country in a siege that was finally defeated after a naval victory in the harbor and a withdrawal delayed by a lunar eclipse. A later siege of that city saw the triumph of Marcellus and death of (*) Archimedes. Magna Graecia was located in this country, the site of a failed long-distance expedition led by Nicias and betrayed by Alcibiades during the Peloponnesian War. For 10 points, name this modern country where Syracuse withstood the Athenian fleets of the Sicilian Expedition.

ANSWER: ***Italy*** (DM)

Packet 9 Bonuses

1. In 1981, this transit system launched its Great White Fleet, which was promptly covered in graffiti. For 10 points each:

[10] Name this busiest transit system in North America that's administered by the Metropolitan Transportation Authority. R. Raleigh D'Adamo won a 1964 design contest for a new map of this system.

ANSWER: **New York City subway** [accept **NYC** for "New York City"; prompt on synonyms for "subway" such as **metro**, **light rail**, or **rapid transport** by asking "what is the specific name for the NYC system?"]

[10] The Key System was an early precursor to this other transit system, which connects its major metropolitan area with Oakland using the Transbay Tube.

ANSWER: **Bay Area Rapid Transit** [or **BART**]

[10] Charles Tyson Yerkes and Samuel Insull shaped the early development of this city's elevated rapid transit system. Part of that transit system names this city's business district, the Loop.

ANSWER: **Chicago** (JS)

2. A traditional style of Chinese music in Jiāngnán is named for these two materials, which fall under the *bā yīn* system for classifying instruments based on their composition. For 10 points each:

[10] Name either of these materials. The first refers to stringed instruments like the *èrhú*, while the second refers to woodwinds like the *dízi*.

ANSWER: **silk** OR **bamboo** [accept either underlined portion; accept **sī** OR **zhú**; do **NOT** accept or prompt on "wood"]

[10] Jiāngnán *sīzhú* was popular in Shanghai, itself the home of a fusion known as *shídàiqǔ* between Chinese folk music and this genre of music. Subtypes of this genre include Dixieland, and another form is played by big bands.

ANSWER: **jazz**

[10] The Communist party denounced Shanghai's music as "yellow," or pornographic. It preferred songs like "The East is [this color]," adapted from a Shānxī folk song. The Chinese flag is primarily this revolutionary color.

ANSWER: **red** [accept "The East is **Red**"] (AY)

3. Mary McCarthy claimed that "every word [this author] writes is a lie, including 'and' and 'the.'" For 10 points each:

[10] Name this playwright whose memoirs, including *Pentimento*, were scrutinized after McCarthy called her "a bad writer, overrated, a dishonest writer" during a 1979 interview on *The Dick Cavett Show*.

ANSWER: Lillian (Florence) **Hellman**

[10] McCarthy challenged Hellman's claim that she helped a woman smuggle money into this country before WWII. Hellman's play *Watch on the Rhine* ends with the protagonist leaving to save Max Friedank in this country.

ANSWER: **Germany** [or **Deutschland**; accept Nazi **Germany**]

[10] This other Hellman play follows Regina Giddens' disruption of her avaricious brothers' plan to construct a cotton mill. Regina gains majority ownership of the mill after watching her husband die and alienating her daughter.

ANSWER: *The **Little Foxes*** (MGS)

4. Answer the following about the Battle of Glorieta Pass, a Civil War battle that is sometimes called the “Gettysburg of the West,” for 10 points each.

[10] The Battle of Glorieta Pass was fought in this modern-day state. In this state, the Tewa religious leader Popé led a 1680 revolt that occupied a city that is the United States’ second-oldest city and oldest capital.

ANSWER: **New Mexico**

[10] John Chivington, the commander of Union forces at the Battle of Glorieta Pass, later perpetrated this 1864 massacre, in which more than 100 Arapaho and Cheyenne were killed in the Colorado Territory.

ANSWER: **Sand Creek** massacre

[10] Henry Hopkins Sibley, the losing general at Glorieta Pass, left the U.S. for this country after the war. Sibley was recruited to this country by the grandson of Muhammad Ali Pasha, who purged the Mamluks after Napoleon’s exit.

ANSWER: **Egypt** [or Khedivate of **Egypt**] (VS)

5. Long Island’s Relativistic Heavy Ion Collider attempts to recreate a version of this substance from the early universe composed of quarks and gluons. For 10 points each:

[10] Name this so-called “fourth state of matter,” a gas of positively charged ions and free electrons.

ANSWER: **plasma** [accept quark–gluon **plasma**]

[10] For an infinitely conductive plasma, Alfvén’s theorem states that these conceptual objects are “frozen in.” These objects connect north and south poles, and they either form closed loops or continue to infinity.

ANSWER: magnetic **field lines** [prompt on magnetic **fields**]

[10] The field lines of plasmas are studied in a “magnetohydro-” form of this general field of physics concerned with forces. The strong force is described by the “quantum chromo-” form of this field.

ANSWER: **dynamic** [accept magnetohydro**dynamic** or quantum chromo**dynamics**; prompt on **MHD** or **QCD**] (SE)

6. A salted, pink Kashmiri version of this drink is often topped with chopped pistachios. For 10 points each:

[10] Name this drink which comes in black and green varieties. The words for this drink’s name in most languages can be traced back to one of two Chinese dialectal pronunciations.

ANSWER: **tea** [accept **chai** or **te**]

[10] Unlike unoxidized green teas and fully oxidized black teas, this kind of tea is only partially oxidized. Varieties of this kind of tea include the famed Tieguanyin from Fujian and the “milky” Jin Xuan from Taiwan.

ANSWER: **oolong** tea [accept **qīngchá**]

[10] A distinct large-leafed cultivar of black tea comes from and is named for this northeastern state of India. Often included in “breakfast blends,” teas from this state are full-bodied and malty.

ANSWER: **Assam** (HK)

7. Frederick Griffith’s studies of pneumonia in mice concluded that some “transforming material” allowed bacteria to transfer genetic information. For 10 points each:

[10] Name that “transforming material,” a thymine-containing macromolecule which we now know encodes most organisms’ genetic information.

ANSWER: **DNA** [or **deoxyribonucleic acid**]

[10] Hershey and Chase used bacteriophages labelled with radioisotopes of these *two* elements, one contained in cysteine and the other in DNA’s backbone, to confirm that DNA was the “transforming material.” *Name both.*

ANSWER: **sulfur** and **phosphorus** [or **S** and **P**; accept in either order]

[10] The Meselson–Stahl experiment confirmed Watson and Crick’s semiconservative model of DNA replication, disproving this other model, in which both resulting strands contain alternating regions of original and new DNA.

ANSWER: **dispersive** model (DS)

8. One artist painted fifteen Cubist reinterpretations of this painting upon Henri Matisse's death. For 10 points each:
[10] Name this painting, which features three women seated around a hookah and a black slave woman with her back to the viewer. The leftmost woman, adorned in a layered pearl necklace, gazes almost antagonistically at the viewer and is the only woman directly facing forwards.

ANSWER: *The **Women of Algiers** in Their Apartment* [or ***Femmes d'Alger** Dans Leur Appartement*] (Picasso painted the Cubist reinterpretations, his *Les Femmes d'Alger*)

[10] This aesthetic and thematic style informs *The Women of Algiers*. Another painting in this style, *The Snake Charmer*, was the original cover art of an eponymous Edward Said critical study of this view of the East.

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

[10] This painter of *The Women of Algiers* was one of the most prominent French Orientalist painters. He also painted a woman wearing a Phrygian cap waving a tri-colored flag in *Liberty Leading the People*.

ANSWER: Eugène **Delacroix** [or Ferdinand Victor Eugène **Delacroix**] (HK)

9. The bark dresses this character wears are "not an enemy to her beauty" according to a king who mistakenly hunts deer in the hermitage she lives in. For 10 points each:

[10] Name this woman who titles a work by Kalidasa. The sage Durvasa curses her, causing her husband-to-be Dushyanta to forget her until she can show him the signet ring he gave her as a token.

ANSWER: **Shakuntala**

[10] One of these people ultimately finds the ring and returns it to Shakuntala, allowing Dushyanta to recognize her. Another one of these people finds a copper jar sealed with the Seal of Solomon and containing a djinn.

ANSWER: **fisherman** [or **fishermen**]

[10] Kalidasa wrote his plays and poems like "The Cloud Messenger" in this language of Vyasa's *Mahabharata*.

ANSWER: **Sanskrit** (MGS)

10. Depictions of this boxer in popular culture often focus on his high-pitched lisping voice, his sponsorship of the *Punch-Out!!* fighting game, or his prominent face tattoo. For 10 points each:

[10] Name this youngest-ever heavyweight boxing champion. He was disqualified from a 1997 fight after biting off part of Evander Holyfield's ear.

ANSWER: Mike **Tyson** [or Michael Gerard **Tyson**]

[10] Both of Tyson's title fights against Holyfield took place at the Garden Arena of this Las Vegas hotel and casino. It is the largest single hotel by room count in the United States.

ANSWER: **MGM Grand** Las Vegas [accept **MGM Grand** Garden Arena]

[10] Tyson knocked out Marvis, a boxer with this surname, in 1986. Marvis's father of the same surname lost to George Foreman in a 1973 title bout, prompting Howard Cosell's famous call, "Down goes [him]!"

ANSWER: **Frazier** [accept Marvis **Frazier** or Joe **Frazier**] (ZA)

11. This character throws an "ass festival" on the top of a mountain, which is attended by "higher men" such as a pair of kings, a sorcerer, and a soothsayer. For 10 points each:

[10] Name this character who titles a book which is "for all or none." This prophet encourages his followers to pursue the ideal of the "overman," or *Übermensch*.

ANSWER: **Zarathustra** [prompt on **Zoroaster**]

[10] This German philosopher repeated his claim that "God is dead" in *Thus Spoke Zarathustra*, and further explored anti-Christian views in books like *Ecce Homo*.

ANSWER: Friedrich (Wihelm) **Nietzsche**

[10] Nietzsche used this two-word term to refer to the doctrine that all events in the world repeat themselves in an infinite cycle. In *The Gay Science*, Nietzsche argued that we should embrace this doctrine with *amor fati*.

ANSWER: **eternal recurrence** [or **eternal return**; or *die ewige Wiederkunft*; or *die ewige Wiederkehr*] (VS)

12. A “counter” to this action the following year, by one of the chief opponents of this action along with Sir John Norreys, was a complete failure. For 10 points each:

[10] Name this action taken from Calais without the aid of the Duke of Parma’s forces, which were stuck in Dunkirk and blockaded by Justinus of Nassau. A description is acceptable.

ANSWER: attempted invasion of England by the **Spanish Armada** [prompt on attempted invasion of England by asking “by what force?”]

[10] Although the English had already defeated the Spanish Armada, the final outcome was still unknown when the monarch gave a speech in this place, notably saying, “I have the heart and stomach of a king.”

ANSWER: **Tilbury**

[10] This queen defeated the Spanish Armada and delivered the Tilbury Speech. She succeeded Queen Mary I and never married.

ANSWER: **Elizabeth I** [or **Elizabeth Tudor** or **Good Queen Bess**; prompt on Elizabeth] (DM)

13. In cell notation, the species involved in one of these constructs are separated by single vertical lines. For 10 points each:

[10] Name these reactions that describe what occurs at one electrode of a galvanic cell. They usually come in pairs, with one describing reduction and one describing oxidation.

ANSWER: **half-reactions** [prompt on partial answer]

[10] Half-reactions are balanced by eliminating these charged particles from the overall reaction. A substance gains these particles in reduction and loses them in oxidation.

ANSWER: **electrons**

[10] The same reactant appears in both half-reactions in this type of redox reaction, in which it is both oxidized and reduced. Superoxide dismutase produces oxygen and hydrogen peroxide via this type of reaction.

ANSWER: **disproportionation** [prompt on dismutation] (SE)

14. A line in iambic hexameter—“Last night I dreamt I went to Manderley again”—opens this novel. For 10 points each:

[10] Name this novel that follows the second Mrs. de Winter. That woman’s husband remains obsessed with this novel’s title woman, his first wife who goaded him into killing her.

ANSWER: **Rebecca**

[10] Gothic fiction and film noir often feature “female monsters,” like Daphne du Maurier’s Rebecca, who exemplify this patriarchal anxiety-fuelled trope. These mysterious stock characters often seduce unfortunate men.

ANSWER: **femmes fatale** [accept **vamps**]

[10] This short story by du Maurier depicts Nat Hocken in a small Cornwall community attacked by the title animals. This story was adapted into a movie by a director known for casting “icy blondes” as *femme fatales*.

ANSWER: “The **Birds**” (The director was Alfred Hitchcock.) (HK)

15. Some people claim that contact with tartan-wearing Scottish missionaries inspired the checked or striped designs of these people's *shuka* cloth. For 10 points each:

[10] Name this Kenyan indigenous group, often seen wearing red *shuka* cloth blankets and their trademark colorful beaded jewelry. In the *adumu* of these people, men compete to see who can jump the highest.

ANSWER: **Maasai**

[10] Unlike *shuka* cloth, to traditionally dye Malian Bògòlanfini, this substance is fermented from up to a year. This substance, which is collected from the banks of still ponds, dyes cloth in rich ochres and browns.

ANSWER: **mud** [accept **clay** slip or any other close equivalent]

[10] Another culturally significant textile is this one, which consists of interwoven strips originating with the Ashante and Ewe peoples. Black Americans often don graduation stoles made from this textile.

ANSWER: **kente** cloth [or **nwentoma**; or **kete**] (HK)

16. The Holy Roman Empire dominated Europe until its dissolution in 1806. For 10 points each:

[10] Name this first Germanic Holy Roman Emperor, the founder of a namesake dynasty. Not to be confused with Charlemagne, he was crowned in 962.

ANSWER: **Otto I** [accept **Otto the Great**; prompt on **Otto**]

[10] Otto crossed the Alps to attack this kingdom in 951 and was crowned its king with the Iron Crown of the Lombards.

ANSWER: Kingdom of **Italy**

[10] During a civil war between Otto and his son Liudolf, these peoples took the opportunity to invade Germany before Otto decisively drove them away at the Battle of Lechfeld.

ANSWER: **Magyars** [accept **Hungarians**] (LL)

17. This is the second of three sacraments that impresses its recipient with an indelible sign called a "sacramental character." For 10 points each:

[10] Name this ritual in which Christians reaffirm their link to the church established by baptism. Catholics typically receive this sacrament around the age of 14 and choose a second name and patron saint as part of it.

ANSWER: **confirmation** [or **chrismation**; prompt on First **Communion**]

[10] Confirmation increases the "gifts" bestowed by this member of the Trinity, which descended on the Apostles on Pentecost as "tongues of fire." This member of the Trinity is also sometimes represented as a dove.

ANSWER: **Holy Spirit** [or **Holy Ghost**; prompt on **spirit** or **spiritus**]

[10] An alternate name for confirmation, "chrismation," derives from the use of a consecrated type of this substance called chrism during the sacrament. This "holy" substance is blessed every year on Maundy Thursday.

ANSWER: holy **oil** [accept more specific answers like olive **oil** or sacramental **oil**; accept **myrrh** or **myron**] (MG)

18. The Dusters raid this city's Hitler Youth offices and elect Oskar Matzerath as leader when he demonstrates his ability to shatter glass with his voice. For 10 points each:

[10] Name this city, the namesake of a Günter Grass trilogy that urges Germany to confront its Nazi past.

ANSWER: **Danzig** [or **Gdansk**]

[10] After the release of his memoir *Peeling the Onion*, some critics called Grass a hypocrite for having long hidden his own service in the Waffen-SS during this war, the setting for much of the *Danzig Trilogy*.

ANSWER: **World War II** [or **WWII**; or **Second World War**]

[10] Grass garnered more controversy with his 2012 prose poem "What Must Be Said," which says he is "sick of the West's hypocrisy" and asserts that this thing "endangers / an already fragile world peace." A description is fine.

ANSWER: "**Israel's atomic power**" [accept reasonable descriptions of **Israel** possessing **nuclear** weapons; prompt on **Israel** or the **Israeli military**; prompt on **nuclear** or **atomic** weapons by asking "of which country?"] (DS)

19. Answer the following about events recorded in al-Tabari's *History*, for 10 points each.

[10] Many volumes of al-Tabari's *History* chronicle the events of this dynasty whose first capital was at Kufa. Abu Muslim's revolt under the Black Standard helped found this dynasty named for Muhammad's uncle.

ANSWER: **Abbasid** dynasty [or **Abbasids**; accept **Abbasid** Caliphate]

[10] Al-Tabari also recounted a revolt against the Abbasids led by one 'Ali ibn Muhammad that was carried out by people known by this Arabic term. Contemporary Arabs referred to the Swahili coast as the "Bilad al-[this term]."

ANSWER: **Zanj** [prompt on **black** people by asking "what is the *Arabic* language term for that?"]

[10] The Abbasids moved their capital to this city in modern Iraq where al-Tabari worked and taught. Much of our knowledge about Harun al-Rashid's House of Wisdom in this city comes from al-Tabari's accounts.

ANSWER: **Baghdad** (HK)

20. Calculi and concretions are often mistaken for these kinds of fossils until they're split open. For 10 points each:

[10] Name these kinds of fossils, whose classification was first described by paleontologist Zhao Zi-Kui. They're often found in large collections, and the first of these to be scientifically recognized were discovered in Mongolia.

ANSWER: fossilized **eggs** [accept dinosaur **eggs**]

[10] The first fossilized eggs found in Mongolia were mistakenly presumed to belong to an early predecessor to this more-familiar late Cretaceous genus. These three-horned dinosaurs had distinctive frilled heads.

ANSWER: **Triceratops** [accept specific species like **T. horridus** or **T. prorsus**]

[10] *Triceratops* is thought to have used its horns to defend against predators such as this small-armed theropod. A well-preserved specimen of this species found at the Chicago Field Museum is named Sue.

ANSWER: **Tyrannosaurus rex** (HK)

Tiebreaker

This man died a year after successfully invading England. For 10 points each:

[10] Name this Viking father of Cnut the Great.

ANSWER: **Sweyn** Forkbeard [or **Sveinn** Haraldsson Tjúguskegg or **Svend** Tveskæg]

[10] Sweyn defeated this King of England whose epithet means "ill-advised." He had earlier ordered the St. Brice's Day Massacre of all Danes in England.

ANSWER: **Ethelred the Unready** [or **Aethelred II**; prompt on **Aethelred**]

[10] Ethelred was the last member of the House of Wessex, whose most notable member was this "Great" king. This king unified England after defeating the Vikings at the Battle of Edington.

ANSWER: **Alfred** the Great (DM)