

Bulldog High School Academic Tournament 2015 (XXIV): It's more than good...it's Grace!

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Packet 3 Tossups

1. In this country, Charlemagne Peralte led the Cacos rebels against the U.S. Marines that had occupied this country since 1915. Before gaining power, a leader of this country acquired his nickname during a U.S.-led health campaign against yaws and malaria. That leader of this country became president in 1957 and used the (*) Tonton Macoutes to quash dissent; his son, Jean-Claude, was forced into exile by popular riots in 1986. It was ruled for much of the 20th century by “Papa” and “Baby Doc” Duvalier. For 10 points, identify this Caribbean country that gained independence under Toussaint Louverture.

ANSWER: Republic of Haiti [or Repiblik Ayiti; or République d'Haïti] <MW>

2. One character in this novel is nearly shot by her husband after she takes some banana leaves and criticizes his skill with a gun. That woman names one of her dead infants “May it not happen again” and worries about a daughter whose spirit pebble has been unearched. Another character in this novel is embarrassed by his (*) flute-playing father, who died of abdominal “swelling” and never had enough cowries. That character, who drinks palm wine from a severed head, breaks the Week of Peace by killing Ezuelo’s son, for which he is banished from Umuofia, the Ibo village where he farms yams. For 10 points, identify this novel about Okonkwo by Chinua Achebe.

ANSWER: Things Fall Apart <GL>

3. A process that occurs in this organelle can be modelled with the “Z-scheme.” In some organisms, this organelle produces PEP instead of 3-phosphoglycerate, and it can make CO₂ from malate in bundle sheath cells. This organelle is the site of the non-standard processes “C3,” “CAM,” and “C4.” This organelle contains molecules like P700, P680, and carotenoids. Like the mitochondrion, this (*) double-membraned organelle has its own DNA and was probably originally a prokaryote that got engulfed. This organelle consists of the fluid stroma, which surrounds the grana, which are stacks of thylakoids. For 10 points, name these plant organelles that contain chlorophyll, the site of photosynthesis.

ANSWER: chloroplasts <JR>

4. Joseph Brady looked at stomach ulcers in these animals to study how control changed the effect of stress. Frans de Waal found that these animals can recognize unfairness when one receives a cucumber and sees another receive a grape. “Rape racks” and a “pit of despair” were used by (*) Harry Harlow in studies of these animals. Harlow also used wire and cloth surrogate mothers to study maternal bonding in these animals. Species of these mammals include capuchin, macaque, and rhesus, and they are used in studies due to their psychological similarities to humans. For 10 points, identify these primates that are NOT studied by Jane Goodall.

ANSWER: monkeys [prompt on “primates”; do NOT accept or prompt on “chimpanzees” or other primates] <HX>

5. Description acceptable. One of these conflicts was partially resolved in the Peace of Passau. Another of these conflicts began with a massacre in Vassy perpetrated by the target of the Amboise conspiracy. Yet another of these conflicts saw Heinrich Bullinger take over for a leader killed in the Battle of Kappel. In one of these conflicts, Francis I surprisingly allied with the (*) Schmalkaldic League. Another of these conflicts climaxed with the 1572 St. Bartholomew’s Day Massacre. These conflicts paused in the Holy Roman Empire after the Peace of

Augsburg and in France after the Edict of Nantes. For 10 points, name this series of 16th- and 17th-century European conflicts that pitted Catholics against Protestants.

ANSWER: European wars of religion [accept any answer about Catholics fighting Protestants, until “For 10 points”] <JR>

6. A show on this network starred characters like Deb Duchon, the lawyers Itchy and Twitchy, and the equipment specialist “W.” Another show on this network was formerly hosted by Keegan Gerhard and now features Kerry Vincent. Yet another show on this network regularly features Marcus Samuelsson, Aaron Sanchez, and Alex Guarnaschelli. That competition on this network has three rounds with (*) “mystery baskets,” and is hosted by Ted Allen. Its sister channels include DIY and HGTV. Alton Brown hosts several of its shows, like *Iron Chef America*. For 10 points, name this network that stars Emeril Lagasse, Bobby Flay and Rachel Ray, and spun off the Cooking Channel.

ANSWER: Food Network <IKD/JR>

7. They’re not electrons, but angular momenta in these entities can cancel by Russell-Saunders coupling. A set of these entities has subscripts “ x squared,” “ xz ,” “ yz ,” “ xy ,” and “ x squared minus y squared.” One of these entities is shaped like a torus surrounding a dumbbell. Madelung’s rule gives the energies of these things but does not explain their unusual configuration in palladium, chromium, and copper. The Pauli exclusion principle and (*) Hund’s rule are the basis for the Aufbau principle for these entities. The second, or “azimuthal” quantum number classifies them into s , p , d , and f varieties. For 10 points, name these regions of an atom that can be occupied by up to two electrons.

ANSWER: atomic orbitals [accept s orbitals, p orbitals d orbitals, or f orbitals; prompt on “electron shell” or just “shell”; prompt on “atom”; do **NOT** accept or prompt on “molecular orbitals”] <JR>

8. One of these objects is in the center of the painting *Light and Colour (Goethe’s Theory)*. It’s not a hare, but a small one of these things is in the front left of *Rain, Steam, and Speed*. When he was 67, J.M.W. Turner asked to be tied to one of these things during a snowstorm, inspiring his non-Hannibal-related painting of that name, while another of his paintings of these objects is subtitled (*) “typhoon coming on.” One of them is at the center of Winslow Homer’s most famous painting. A painting titled for one of these objects depicts people in chains being attacked by sea monsters. For 10 points, name these objects that Turner loved to paint, including *The “Fighting” Temeraire* and one that was used to transport slaves across the Atlantic.

ANSWER: ships [accept boats or any more specific type of sea vessel; if they answer with “mast,” prompt by saying “They want something more general.”] <JR>

9. Description acceptable. Kshama Sawant was elected to the Seattle City Council based on her support for this policy. Proposition J, which does this, was recently approved in San Francisco. It was successfully done in Day Three of the 100-Hour Plan. Protests for it include national walk-outs led by the organization Fast Food Forward. Politicians opposed to this policy frequently cite a CBO study which says that doing this would result in five hundred thousand (*) jobs being lost. Obama used his 2014 State of the Union to call for this to be enacted nationwide at ten dollars, ten cents. For 10 points, name this policy that seeks to help low wage workers.

ANSWER: raising the minimum wage [accept anything involving making the minimum wage higher, accept specific amounts like 15 or 10.10; if they answer with “minimum wage” prompt by asking “What do these people want to *do* to the minimum wage?”] <IKD>

10. An enraged man in this opera threatens his employer in the aria “Se vuol ballare” and sketches out a hard military life in “Non piu andrai.” In this opera, “Dove sono” is sung by a woman who gives a ribbon to her god-son, the page; that page jumps out of a window and dresses as a flower girl. In this opera, which includes the wedding of the title character’s parents, Bartolo and (*) Marcellina, the Countess tries to stop her husband

from exerting his *droit de seigneur* on her maid and resists Cherubino's blandishments. For 10 points, name this opera about the "crazy day" of Susanna's wedding to the title manservant by Wolfgang Amadeus Mozart.

ANSWER: The Marriage of Figaro [or Le Nozze de Figaro] <GL>

11. This quantity can be calculated using Bretschneider's formula. The Reeve tetrahedron proves that Pick's theorem to find this quantity using lattice points cannot be generalized to polytopes, and the shoelace formula can be used to calculate this quantity if coordinates of vertices are known. Bramagupta's formula, which can be used to calculate this property of a cyclic (*) quadrilateral, is a generalized form of a formula which applies only to triangles, known as Heron's formula. Simpson's rule is used to estimate this value under a curve, which is calculated by definite integrals. For 10 points, identify this quantity, which, for a square, is equal to the side length squared.

ANSWER: area <HX>

12. One of this ruler's military leaders was nicknamed "Mikhail the Hangman." He banned Polish after the January Uprising but made Finnish a national language. This ruler's successor restricted the rights of Jews with the May Laws. After winning a Russo-Turkish war, this ruler "liberated" Bulgaria in the Treaty of San Stefano. His predecessor was the target of the (*) Decembrist revolt. He instituted a local system of self-government called *zemstvo*. This tsar, who ended the Crimean War, had many of his reforms reversed after his assassination by "the People's Will" in 1881. For 10 points, name this Russian Tsar who freed the serfs.

ANSWER: Alexander II Romanov [prompt for the number on just "Alexander"] <JR>

13. Some consider Bon to be a branch of this religion. Henry Steel Olcott converted to it and helped popularize a "protestant" version of this faith with Anagarika Dharmapala. The major branch of this faith deemphasizes becoming an *arhat*. Communities of believers in this religion are called *sanghas* and are part of the Three Jewels. One branch of it was born from a wordless sermon in which a white flower was held up. It follows the (*) Middle Way or Eightfold Path, and emphasizes the Four Noble Truths. This faith holds that temporary, material things are the root of suffering. For 10 points, name this faith divided into Theravada and Mahayana branches, whose adherents try to achieve nirvana.

ANSWER: Buddhism [accept any more specific answer, like Zen Buddhism] <IKD>

14. A husband in this country believes that the first man to sleep with his wife after she drinks a fertility potion will die; that ruse gives Sostrata's daughter a night with Callimaco. In another play from this country, the Maniac forces inspectors to recreate an anarchist's "fall" from a window. Besides *The Mandrake*, this country also produced a play in which a character is attracted when hats and cloaks are hung on pegs. In that play from this nation, a girl (*) drowns in a fountain, and Madame Pace and The Father interrupt the Director's stage rehearsals. For 10 points, identify this country where *Six Characters in Search of an Author* was written by Luigi Pirandello.

ANSWER: Italy [or Italian Republic; accept Florence until "Maniac"] <GL>

15. This President sent federal troops to stop striking coal miners at the Battle of Blair Mountain. He supported the anti-lynching Dyer bill, but he had to force the resignation of the fraudulent Director of the Veterans' Bureau, Charles R. Forbes. The Washington Naval Conference took place during this President's term. He promised America a (*) "return to normalcy" during his presidential campaign. Loans from Edward Doheny were accepted by his Secretary of the Interior, Albert Fall, in exchange for drilling rights at Teapot Dome. For 10 points, identify this corruption-plagued twenty-ninth U.S. President, whose sudden death in 1923 caused Calvin Coolidge to ascend to the presidency.

ANSWER: Warren G. Harding <MW>

16. [Note to moderator: please read the gray-highlighted text SLOWLY]

The Poiseuille equation describes a drop in this quantity. This quantity, plus: density times gravitational acceleration times height, plus: one half density times velocity squared is usually constant. Change in this quantity is distributed evenly in all directions, by (*) Pascal's law. An increase in velocity causes a decrease in this quantity, by Bernoulli's principle. The difference in this quantity between the top and bottom of an object yields the buoyant force on an object. This quantity increases with depth. For 10 points, name this physical quantity equal to force over area.

ANSWER: pressure [prompt on "P"] <JR>

17. **This character states that he knows fewer than half a dozen truly accomplished women while ensconced in his best friend's library with Caroline and Mrs. Hurst. Mrs. Younge helps a militia officer seduce his younger sister, though this character foils Georgiana's elopement in time. This man irritates his love interest during a (*) ball at Netherfield by calling her "tolerable, but not handsome enough to tempt me," a snobbish gesture that offsets his "ten thousand pounds a year." After his first proposal is refused, he rescues Lydia from Wickham, earning Lizzy's gratitude. For 10 points, identify this master of Pemberley who marries Elizabeth Bennett in Jane Austen's *Pride and Prejudice*.**

ANSWER: Mr. Darcy [or Fitzwilliam Darcy; prompt on just "Fitzwilliam;" do NOT accept or prompt on "Colonel Fitzwilliam," nor "Miss Darcy," nor "Georgina Darcy"] <GL>

18. **This figure is struck by her sister in one of the Three Harmful Blows of Welsh mythology. After Meleagant's abduction of this person, a Sword Bridge was crossed by the Knight of the Cart to save her, and Gaheris perishes during the rescue of this woman from a burning stake, indirectly causing the Battle of (*) Camlann. Elaine of Corbenic disguises herself as this woman to get pregnant with Galahad. Her father, King Leondegrance, donated a Round Table upon her marriage to a man who pulled a sword from a stone. For 10 points, identify this Queen of Camelot and lover of Sir Lancelot, King Arthur's unfaithful wife.**

ANSWER: Guinevere [or Gwenhwyfar] <GL>

19. **The long opening stage direction in this play mentions a light source "which fights its way through" a "little window." In this play's first act, one character exclaims "DAMN MY EGGS!" and a young boy is given fifty cents for a school activity. In this play's second act, Bobo reveals that he was unable to meet Willy Harris in Springfield. Joseph (*) Asagai is a character in this play who plans to marry Beneatha and move to Africa. This play details the struggles of the Younger family as they debate what to do with a \$10,000 life insurance check. For 10 points, name this play that takes its title from a Langston Hughes poem and was written by Lorraine Hansberry.**

ANSWER: A Raisin in the Sun <LL>

20. [Note to moderator: please read the gray-highlighted text SLOWLY, with especially long pauses at the semicolon]

The slow movement of one of this composer's symphonies begins with the theme "C-C E-E G-G E; F-F D-D B-B G." During the premiere of one of his symphonies, a chandelier fell, but nobody was hurt. Three of his early symphonies are nicknamed "Morning," "Noon," and "Evening." He wrote a set of six symphonies, including "The Queen," "The Bear," and "The Hen" for an orchestra in (*) Paris. Some of his symphonies got their nicknames from imitations of military effects and the ticking of a clock, and an opening drumroll. This "Father of the Symphony" wrote 106 of them. For 10 points, name this Classical-era composer of the London Symphonies, including the "Surprise" Symphony.

ANSWER: [Franz] Joseph Haydn <JR>

Tiebreaker

21. After gathering supplies, two characters in this novel hide in an attic garret and pretend to be ghosts. In this novel, Mrs. Bird, who has just lost a child, chastises her husband for new legislation in the Senate and encourages him to hide a girl and her child in John Van Trompe's house. In this novel, Cassy reunites with her daughter in Canada after Eliza jumps onto (*) ice blocks to cross the frozen Ohio river. Another character in this novel is sold by Eva St. Clare's mother to Simon Legree, who whips the title slave to death. For 10 points, identify this novel written by the "little lady who started this great war," Harriet Beecher Stowe.

ANSWER: *Uncle Tom's Cabin*; or, *Life Among the Lowly* <GL>

Packet 3 Bonuses

1. These people signed the Treaty of Moultrie Creek and the Treaty of Payne's Landing. For 10 points each:

[10] Name this Native American tribe from Florida that fought three wars against the United States army in the early nineteenth century.

ANSWER: the Seminole

[10] This Seminole leader's attack of Willy Thompson near Fort King help catalyze the Second Seminole War.

ANSWER: Osceola [or Billy Powell]

[10] The Treaty of Payne's Landing was negotiated by this American statesman. He later served as the ambassador to Mexico under Franklin Pierce, making his namesake purchase of territory in present-day Arizona and New Mexico.

ANSWER: James Gadsden <JM>

2. This quantity for a reaction is zero at chemical equilibrium. For 10 points each:

[10] Identify this quantity which equals the opposite of the ideal gas constant times temperature times the natural log of K . It determines the spontaneity of a reaction.

ANSWER: Gibbs free energy [prompt on "free energy;" do NOT accept or prompt on "Helmholtz free energy"]

[10] Chemical equilibrium is described by this adjective, which means that forward and reverse reactions continue to happen, but overall reactant and product concentrations remain the same. It is contrasted with static equilibrium.

ANSWER: dynamic equilibrium [do NOT accept or prompt on any words except "dynamic"]

[10] Give the equilibrium constant for this reaction: A yields B. You should express it in terms of the concentrations of A and B.

ANSWER: the concentration of B over the concentration of A [or the concentration of B divided by the concentration of A; it looks like $[B]/[A]$, so accept answers involving the brackets] <GL>

3. In one song this musician declares "Look up in the sky it's a bird, it's a plane, Nah it's just me" For 10 points each

[10] Name this musician who collaborated with Kesha on "Timber." He is often mocked for the lyrics in his songs.

ANSWER: Pitbull [accept Armando Christian Perez]

[10] Another baffling choice of lyrics comes in Pitbull's "Give me everything" when he asks the listener to go to this location and "Take a picture of me with a Kodak".

ANSWER: Times Square

[10] Pitbull collaborated with this artist on a song that declares "Ask for advice, get money twice," "Feel This Moment." Her other hits include "Genie in a Bottle," and she knows that "You're beautiful, no matter what they say."

ANSWER: Christina [Maria] Aguilera <NW>

4. One player of this instrument made his breakthrough with *Giant Steps*. For 10 points each:

[10] Name this instrument of Ornette Coleman and John Coltrane. It functions more or less like a metal clarinet.

ANSWER: saxophone [accept any more specific answer, like tenor saxophone]

[10] This alto saxophonist and bebop innovator created standards like "Scrapple from the Apple," "Billie's Bounce," and "Ornithology."

ANSWER: Charlie Parker [or Charles Parker, Jr.; or "Yardbird"]

[10] This drummer recorded with just about everyone, including Charlie Parker and Clifford Brown. He included "For Big Sid" and "The Drum Also Waltzes" on the album *Drums Unlimited*.

ANSWER: Max Roach [or Maxwell Lemuel Roach] <JR>

5. This writer's advice to Franz Kappus was collected in *Letters to a Young Poet*. For 10 points each:

[10] Name this German-language poet who asked “Who, if I cried out, would hear me among the angelic orders?” in *The Duino Elegies*.

ANSWER: Rainer Maria **Rilke** [or René Karl Wilhelm Johann Josef Maria **Rilke**]

[10] Rilke wrote a set of sonnets to this mythological figure, who wields a lyre. In the thirteenth sonnet, Rilke references this character’s wife, Eurydice.

ANSWER: **Orpheus**

[10] Rilke’s only novel is titled after these things, which belong to Malte Laurids Brigge. A “Golden” one belonging to Anna Wulf ties together her previous black, red, yellow, and blue ones in a Doris Lessing novel.

ANSWER: **notebooks** [or **journal**; or **aufzeichnungen**; prompt on “diary”] <GL>

6. Answer some questions about classical mechanics. For 10 points each:

[10] Identify this quantity, equal to the derivative of angular momentum with respect to time.

ANSWER: **torque** [prompt on “moment of force” or “moment,” but do NOT just accept “moment” or “force”; prompt on “tau”]

[10] At equilibrium, the sum of the torques and the sum of the forces acting on an object must both equal this value. Similarly, its net acceleration will also equal *this*.

ANSWER: **zero**

[10] Physics students often use these drawings to visualize the forces (and sometimes torques) acting on an object. Usually, the forces on these diagrams are symbolized using arrows.

ANSWER: **free body** diagram [prompt on “force diagram”] <JR>

7. He originated a style of satire often contrasted with Juvenal’s. For 10 points each:

[10] Name this Roman poet and friend of Maecenas. He also wrote several *Epistles*.

ANSWER: **Horace** [or Quintus **Horatius** Flaccus]

[10] Horace wrote four books of poems in this genre, which was pioneered by Pindar. Near the end of his life, Keats wrote six of these, including one “to a Nightingale” and one “on a Grecian Urn.”

ANSWER: **odes** [or **carmina**]

[10] Horace also wrote this “Epistle to the Pisos,” which gives guidelines for how to write good poems and drama. It is the origin of the phrases *in medias res* and “even Homer nods.”

ANSWER: **Ars Poetica** [or *The* **Art of Poetry**] <JR>

8. This state was divided into four provinces known as *suyu* and employed runners called *chaski* to deliver messages along its extensive road system. For 10 points each:

[10] Identify this state in modern-day Peru that was conquered by Francisco Pizarro in the 1530’s. Pizarro executed this state’s ruler, Atahualpa, despite the fact that Pizarro received a room full of gold.

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

[10] This city was the capital of the Inca Empire. Pachacuti remodeled this city and expanded its holdings to form the Inca Empire.

ANSWER: **Cusco**

[10] This Incan ruler was the father of both Atahualpa and his brother Huascar.

ANSWER: **Huayna Capac** <MW>

9. Answer some questions about tycoons who know how to exploit history, for 10 points each.

[10] This crafty mess officer creates “the syndicate,” which sells black-market goods like eggs and chocolate-covered cotton. He is paid by the Germans to bomb his own squadron at Pianosa during World War II.

ANSWER: **Milo Minderbinder** [accept either underlined part]

[10] Milo Minderbinder’s schemes appear in this 1961 Joseph Heller novel, which centers on Yossarian.

ANSWER: **Catch-22**

[10] In a short story by this author, Percy Washington's grandfather moves to Montana and tells his slaves that the South won the Civil War to keep them in bondage. That short story describes "A Diamond as Big as the Ritz."

ANSWER: F. Scott **Fitzgerald** [or Francis Scott Key **Fitzgerald**] <GL>

10. Answer the following about how memory can fail us, for 10 points each:

[10] This phenomenon is the common name for the result of memory retention declining over time. Hermann Ebbinghaus plotted a "curve" for this concept, which is the opposite of remembering.

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

[10] Our memories can become distorted due to the misinformation effect, which Elizabeth Loftus studied by implanting false childhood memories of getting lost in this type of place.

ANSWER: **mall** [prompt on any sort of "shop"]

[10] Our recent memories can also make us susceptible to this cognitive bias. This bias causes us to overestimate the frequency of certain events due to how easily accessible our memories of them are.

ANSWER: **availability** heuristic [or **availability** bias] <HX>

11. This son of Philip II defeated Darius III at Issus and Gaugamela. For 10 points each:

[10] Name this Macedonian general who conquered Turkey, Egypt, and Persia before dying at the age of 32.

ANSWER: **Alexander the Great** [or **Alexander III** of Macedon; prompt on just "Alexander"]

[10] Alexander the Great and his successors, the *Diadochi*, spread Greek learning and culture, ushering in *this* period of widespread Greek influence around the Mediterranean.

ANSWER: **Hellenistic** [accept word forms like **Hellenism**]

[10] This general under Alexander and member of the *Diadochi* was beaten by Seleucus at the Battle of Ipsus, but he still managed to establish a namesake dynasty that took over Macedon and a lot of Greece.

ANSWER: **Antigonus** I Monophthalmus [accept **Antigonids**] <JR>

12. Its new capital is the planned city of Naypyidaw. For 10 points each:

[10] Name this Southeast Asian country between Bangladesh, China, Thailand, and India, the home of Aung San Suu Kyi ["chee"]. Its old capital, Yangon, was once called Rangoon.

ANSWER: Republic of the Union of **Myanmar** [or Union of **Burma**; or Pyidaunzu Thanmada **Myama** Nainngandaw; or Pyihtaungsu Thamada **Myanmar** Naingngandaw; or Pyihtaungcu Sammat **Myanmar**ninengantaw; or **Myanmarn**ninengan eat Pyihtaungcu]

[10] Unlike Burma's majority Buddhists, the Rohingya practice this religion. Religious persecution has caused many Rohingya to flee to more friendly territory in Bangladesh, where this religion dominates.

ANSWER: **Sunni Islam** [accept either; accept answers involving **Muslims**]

[10] This second largest city in Burma lies inland on the bank of the Irrawaddy River north of Naypyidaw and is home to the final palace of the Burmese monarchy.

ANSWER: **Mandalay** [or **Mandalav** District; or **Mantalavy** Hkarine; or **Yadanabon**; or **Ratanapunna**] <JW>

13. Answer some questions about the career of Francisco de Zurbarán, for 10 points each.

[10] Perhaps Zurbarán's most famous painting is one in this genre, depicting lemons, oranges, and a rose. In general, these are highly detailed paintings of carefully arranged inanimate objects.

ANSWER: **still lifes**

[10] Like so many Tenebrist artists under the influence of Caravaggio, Zurbarán used *this* technique. This technique takes its Italian name from strong contrasts between light and dark.

ANSWER: **chiaroscuro** [accept **clair-obscur**]

[10] Like many painters before 1700, Zurbarán did a series of paintings about the life of this saint. This saint is often depicted taking a thorn out of a lion's paw, or with a skull and writing a book.

ANSWER: Saint **Jerome** [or Eusebius Sophronius **Hieronymus**; do **NOT** accept just "Eusebius" nor just

“Sophronius”] <JR>

14. It was developed in 1912 by Alfred Wegener to explain how South America and Africa appear to fit together so perfectly. For 10 points each:

[10] Identify this theory that the Earth’s landforms have shifted relative to each other. The presence of similar fossils and rock formations on different shores supports this theory.

ANSWER: **continental drift** [prompt on “plate tectonics”; do **NOT** accept or prompt on “sea-floor spreading”]

[10] Seafloor spreading, the mechanism that drives continental drift, is caused by convection currents in the mantle, which allow for *this* plastic-like upper portion of the mantle.

ANSWER: **asthenosphere**

[10] One piece of evidence supporting seafloor spreading was the presence of *these* features on the seafloor. The Vine-Matthews-Morley hypothesis links these features with certain cataclysmic reversals.

ANSWER: **magnetic stripes** [accept answers mentioning **alternating magnetic** patterns] <HX>

15. In this novel, Robert Walton meets a scientist who once studied in Ingolstadt. For 10 points each:

[10] Identify this Mary Shelley novel in which Victor creates a monster from bits of corpses.

ANSWER: ***Frankenstein; or, the Modern Prometheus***

[10] Victor’s younger brother, William, dies by *this method* at the hands of Frankenstein’s monster. Henry Clerval and Elizabeth Lavenza also die by this method.

ANSWER: **strangulation** [accept clear equivalents; prompt on “murder” or equivalents]

[10] A virtuous servant girl with this first name is mistakenly hanged for William’s murder because she has William’s locket. Another girl with this name gets ravished by monks and titles a novel by the Marquis de Sade.

ANSWER: **Justine** [or **Justine** Moritz; or **Justine** de Bertole] <GL>

16. In Italy, this process was promoted by Victor Emmanuel II and Giuseppe Garibaldi’s Expedition of the Thousand. For 10 points each:

[10] Name this result of nationalism. In Germany, it was accomplished by Otto von Bismarck.

ANSWER: **unification** [accept **Risorgimento**; accept any answer that involves making **one country**]

[10] This prime minister of Piedmont-Sardinia was one of the leading lights of the *Risorgimento*. He later became the first prime minister of unified Italy.

ANSWER: Camillo [Paolo Filippo Giulio] **Benso**, Count of **Cavour** [accept either underlined part]

[10] Italian unification might have gone too far. This movement more or less declared that any nearby place with a lot of Italians should be part of Italy, including Corsica, Nice, Savoy, Malta and big chunks of Slovenia and Croatia.

ANSWER: **irredentism** [accept any answer with **irredenta**, **irredentist**, or similar words in it] <JR>

17. This religion’s sacred text is *The Divine Principle*. For 10 points each:

[10] Name this religion founded by Sun Myung Moon, which has a dualistic view of God. They own several businesses, including the *Washington Times*.

ANSWER: **Unification Church** [accept **Holy Spirit Association for the Unification of World Christianity**, accept **Moonies**]

[10] The Unification Church is based in this hyper-Christian East Asian country. Confucianism spread here after several invasions from neighboring China.

ANSWER: South **Korea** [or Republic of **Korea**; or **ROK**; or **Daehan Minguk**]

[10] The Unification Church is most famous for performing these ceremonies *en masse*. At a Jewish one, a glass is broken underfoot, and in Christianity, they are often announced with “banns.”

ANSWER: **weddings** [or **Blessing** ceremonies; accept **marriages**] <IKD>

18. John Ford’s masterpieces in this genre include *The Man Who Shot Liberty Valance* and *Stagecoach*. For 10

points each:

[10] Name this American film genre featuring actors like John Wayne, who played cowboys and sheriffs.

ANSWER: **Westerns**

[10] This actor appeared in several “Spaghetti westerns,” including the *Dollars* trilogy: *A Fistful of Dollars*, *For a Few Dollars More*, and *The Good, the Bad and the Ugly*. He’s also directed films like *Unforgiven* and *Mystic River*.

ANSWER: Clint **Eastwood** [or Clinton **Eastwood**, Jr.]

[10] This Italian directed the *Dollars* trilogy.

ANSWER: Sergio **Leone** <JR>

19. It is found in the walls of blood vessels and in the gastrointestinal tract. For 10 points each:

[10] Identify this type of muscle tissue, which is distinct from skeletal and cardiac muscle.

ANSWER: **smooth** muscle

[10] In contrast to smooth muscle, cardiac and skeletal muscles have many of these units, which give them a striated look. In the sliding filament model, one of these extends between two Z-lines.

ANSWER: **sarcomeres**

[10] The sliding filament model explains how muscles contract through the interaction of thin filaments containing this protein and thick filaments containing myosin.

ANSWER: **actin** <HX>

20. Identify some facts about deities of undignified things, for 10 points each.

[10] This modern-day nation’s indigenous Innu people paid homage to Matshishkapeu, a fart god who cursed the Caribou Master with constipation. Other gods from this non-US country include Sedna, a sea-goddess of the Inuit.

ANSWER: **Canada**

[10] Cloacina, an aspect of Venus, was the Roman goddess of these entities, one of which was the Cloaca Maxima.

ANSWER: **sewers** [accept **drainage** or other equivalents; do not prompt on “aqueduct;” do not prompt on “toilet”]

[10] Uke Mochi, one of these Japanese Shinto spirits, was the deity of food until she vomited up some surf and turf and rice to give Tsukuyomi a feast. He was so disgusted that he killed her.

ANSWER: **kami** <GL>

Tiebreaker

21. Name some regions of Italy, for 10 points each.

[10] This northwest coastal region is more or less the Italian version of the French riviera. Pesto comes from its busy seaport, Genoa.

ANSWER: **Liguria**

[10] Also up north is this region on the Swiss border next to Piedmont. Its capital is Milan.

ANSWER: **Lombardy** [or **Lombardia**]

[10] Cities like Palermo and Messina are on this giant island just below the “boot” of Italy.

ANSWER: **Sicily** [or **Sicilia**] <JR>