

Maryland Spring 2014 - Get Your Pencil and Paper Ready for Round 12

Packet 7

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Tossups

1. **A city in this country was bombed by Augustus Kuper after soldiers of this country killed Charles Richardson for riding too close to a military retinue. It's not Thailand, but Townsend Harris negotiated a Treaty of Amity with this country, and ministers of this country signed secret agreements with Elihu Root and William (*) Howard Taft concerning spheres of influence. The "black ships" of Matthew Calbraith Perry visited this country and forced its leader to sign the Treaty of Kanagawa, thus ending its *sakoku* period. For 10 points, name this Asian country which pursued an isolationist policy during its Tokugawa Shogunate.**

ANSWER: Japan

2.. **Proteins characterized by a binding domain of this element are anchored to actin by catenins and are responsible for cell-cell adhesion. This element is decreased in the body by a hormone produced in the parafollicular cells. Cadherins act on this element, large amounts of which are present in the (*) sarcoplasmic reticulum. Parathyroid hormone stimulates the reabsorption of this element, which is acted upon by calmodulin. For 10 points, name this element whose two-plus ion is stored in bone, with symbol Ca.**

ANSWER: calcium

3. **This team briefly called up the enormous 315-pound prospect Japhet Amador, and this team lost a game that should have gone into extra innings against the Pirates after Jimmy Paredes and Jake Elmore collided into each other. One player for this club, Jonathan Villar, famously slid face-first into a (*) butt last season, and stars for this club include Jason Castro. Last season, this club finished with a franchise-worst 51–111 record, their third hundred-loss season in a row. Former players for this franchise who keep missing the Hall of Fame include Jeff Bagwell and Craig Biggio, and this team plays at Minute Maid Park. For 10 points, name this awful MLB club, named for a former stadium they played in and based in Texas.**

ANSWER: Houston Astros (accept either underlined part)

4. **The opening of this poem describes a figure with "a voice of gladness, and a smile / And eloquence of beauty." This poem lists "vales stretching in pensive quietness" and the "ocean's gray and melancholy waste" as "solemn decorations." A "still voice" from "nature's teachings" speaks most of this poem which also urges (*) "take the wings / of morning, pierce the Barcan wilderness." Its final stanza contrasts "the quarry-slave at night" with "one who wraps the drapery of his couch about him and lies down to pleasant dreams." For 10 points, name this poem about death by William Cullen Bryant.**

ANSWER: "Thanatopsis"

5. **Marguerite Long was the dedicatee of a Piano Concerto in G by this man that opens with a whip crack. Ricardo Viñes premiered a solo piano piece by this composer, which was inspired by a section of Liszt's *Years of Pilgrimage* that depicts the Fountains of the Villa d'Este. A section of one of this man's piano compositions was created to surpass Mily (*) Balakirev's *Islamey* in difficulty, and he wrote a piece featuring a repetitive snare drum ostinato. For 10 points, name this French composer who composed *Gaspard de la nuit* and *Boléro*.**

ANSWER: Maurice Ravel

6. This god gave Ravana the sword Chandrahas after pinning him down with his toe. This deity is sometimes depicted crushing the dwarf Apasmara in his form of Nataraja. This god is also known as Tryambakam, referring to his third eye, which he used to burn Kama to ashes. This father of (*) Kartikeya rides the white bull Nandi and is said to live atop Mount Kailash. This god wields the trishula, and his hair is the source of the Ganges River. After drinking the Halahala poison, this god's throat turned blue. For 10 points, name this husband of Parvati, a member of the Hindu trimurti known as the Destroyer.

ANSWER: Shiva

7. During this event, one man distributed flyers advertising a show in which Elmer Chubb would drink poison. One participant in this event asked for a ten-foot sign to be removed and discussed a date estimated by James Ussher during it. This event was orchestrated by George Rapelyea as a publicity stunt, and (*) H. L. Mencken denounced "yokels" while covering it. Stemming from a violation of the Butler Act, this event saw questions such as "where did Cain get his wife?" directed at William Jennings Bryan by Clarence Darrow. Occurring in Dayton Tennessee, for 10 points, name this trial centering on a high school teacher who taught evolution.

ANSWER: Scopes Monkey Trial (accept The Monkey Trial)

8. One character from this poem is the subject of a novel that opens with him yelling at a ram and was written by John Gardner. A section of this poem narrated by a man with "no tumbling hawk" is sometimes categorized as one of its funeral scenes. Recently, Henry Walkden claimed that the first word of this poem should not be translated as "so!" or other exclamations. Famously translated by (*) Seamus Heaney, this poem centers on a man who swims downwards for a day to reach the lair of a sea-witch and arrives to protect Hrothgar's mead-hall at its beginning. For 10 points, name this poem featuring the monster Grendel and the title hero, an Anglo-Saxon epic.

ANSWER: Beowulf

9. The Rohwer War Relocation Center housed Japanese-Americans during WWII in this state's Desha County. The headwaters of this state's White River are located in the Boston Mountains in its northwest. The Ouachita Mountains run through the center of this state, which also includes the (*) Ozarks in its north. This state's namesake river originates in Leadville, Colorado, and flows through Oklahoma and Kansas before passing its cities of Fort Smith and Pine Bluff. For 10 points, name this southern state with capital at Little Rock.

ANSWER: Arkansas

10. Peculiar motion refers to trajectories that cannot be explained entirely by this relation, and that can lead to effects like the Fingers of God. A parameter of this law is equal to a prime over a , where a is the scale factor in the Friedmann equations, and that parameter was calculated by the Planck spacecraft to be about (*) seventy kilometers per second per megaparsec. This law states that velocity is proportional to its namesake constant times distance from earth. For 10 points, name this law that states that things in the universe are all moving away from each other.

ANSWER: Hubble's Law

11. One painting from this country shows a cat eating a bird and some sheet music on a piano. An emotionless man and wife stare over a ship's railing in a painting entitled "The Last of" this country. An artist from this country depicted a woman leaping from a bearded man's lap in *The Awakening Conscience*, while another artist from here was criticized for showing a "red-headed Jew boy" displaying the (*) stigmata in *Christ in the House of His Parents*. Several artists from this country used Elizabeth Siddal as a model for such paintings as *Beata Beatrix* and *Ophelia*. For 10 points, name this country where the Pre-Raphaelite Brotherhood worked in the 19th century and where J. M. W. Turner painted the Houses of Parliament.

ANSWER: England (accept Great Britain or whatever)

12. **One model of this phenomenon, describing it as a point in a periodically corrugated landscape, is named for Tomlinson. Painleve's paradox arises from bodies experiencing both this phenomenon and a variant form named for Coulomb. Imparting an electric charge to materials by this phenomenon, which is governed by (*)** Amonton's Law, is known as triboelectricity. This force is proportional to applied load and independent of contact area, and its static type is usually higher than its kinetic type. For 10 points, name this force that resists the motion of two surfaces sliding past each other.

ANSWER: friction

13. **This author retold the Orpheus story in *The Ground Beneath her Feet* and included a dream sequence in which Ayesha leads some pilgrims into the sea in another novel. In that work, two characters survive the (*)** explosion of a hijacked aircraft over the English Channel. One of his novels centers on the eventual husband of Parvati-the-witch, a boy with an enormous nose who is born at the exact moment of India's independence. For 10 points, name this British-Indian author of *Midnight's Children* who received a fatwa for *The Satanic Verses*.

ANSWER: Salman Rushdie

14. **One study on these subjects was conducted by Walter Mischel and tested self-control by offering a higher number of marshmallows for waiting. One study on these subjects divided them into two groups nicknamed the "rattlers" and "eagles," and that study on this kind of people was conducted by (*)** Muzafer Sherif and was known as the Robbers Cave Experiment. A famous study on this kind of person used repeated phrases like "socko!" to demonstrate behavior modeling. For 10 points, name these subjects of the Bobo doll experiment, the general term for young human beings.

ANSWER: children or kids or anything indicating young human beings (prompt on "humans" or "Americans")

15.. **During one engagement, this ruler apparently leaped up three times out of fear for his troops, and while watching a battle from a throne on Mount Aigelo, he lamented, "my men have become women and my women men." After this ally of Artemisia I returned home, his fleet was burnt at (*)** Mycale and his general Mardonius was slain. This man's troops were shown a secret path by Ephialtes of Malis, allowing them to win a battle against Leonidas I. For 10 points, name this Persian king, the son of Darius, who was defeated at Salamis and won at Thermopylae during his invasion of Greece.

ANSWER: Xerxes I (or Xerxes the Great)

16. **One method of producing this molecule exposes methane to water at extremely high temperatures, and is known as the steam reforming process. Saline hydrides liberate this molecule when they come into contact with Brønsted acids. The addition of this molecule to an unsaturated fat converts it to a saturated fat, because addition of this molecule to an (*)** alkene creates an alkane. Another method of producing this molecule and oxygen gas runs a large overpotential through water. For 10 points, name this flammable diatomic molecule, which consists of two atoms of the lightest element bonded together.

ANSWER: H₂ (accept hydrogen gas)

17. **In this book, a husband and wife are both killed when they are caught lying about the price of a piece of land they had sold; those are Ananias and Sapphira. In this book, an earthquake opens the doors of a prison, but the prisoners do not leave because that would cause the guard to be killed. This book tells of the death by stoning of (*)** Stephen. This book describes how a wind from heaven filled the room and tongues of fire came down on the apostles' heads, giving them the gift of tongues. In addition to detailing the first Pentecost, this book tells of the conversion of Paul. For 10 points, name this book of the New Testament that follows Apostles like Paul and Peter in the days of the early Church.

ANSWER: Acts of the Apostles

18. The protagonist of this work sees two women knitting with black yarn in a doctor's waiting room. In this novel, a harlequinesque Russian man praises a character who once painted a blindfolded woman with a torch. The frame story of this novel takes place aboard a boat called the *Nellie*, and, in its final scenes, the narrator visits a woman called "The Intended." The central character of this work scrawls (*) "exterminate all the brutes!" in a book, lives in a hut surrounded by shrunken heads, and cries "the horror, the horror!" before dying. For 10 points, name this novel featuring Marlow and Kurtz that was written by Joseph Conrad.

ANSWER: Heart of Darkness

19. A series of dances in Act II of this ballet borrows music from its composer's opera *Undina*, while Act I ends with the *Dance of the Goblets*. Julius Reisinger choreographed this ballet, whose most performed version was arranged by Riccardo Drigo. In this ballet, the protagonist encounters his love interest while on a hunting trip with his tutor Wolfgang and his friend (*) Benno von Sommerstern. In this ballet, the evil Rothbart casts a spell on Odette and switches her with his daughter Odile at a ball in order to trick Prince Siegfried into marrying her. For 10 points, name this ballet in which Odette turns into the title bird at night, a work of Tchaikovsky.

ANSWER: Swan Lake (or Lebedinoye ozero)

20. A spurious anecdote claims that an attempt to remove one of these people was thwarted when a man was bitten by the greyhound Urian. One of them was the subject of the poem "Whoso lists to hunt" and was incriminated by the musician Mark Smeaton's testimony. One of these people was called the "Flemish (*) mare" for her ugliness, and another was accused of having six fingers on one hand. Thomas Wolsey's failure to get rid of one of these people during the "Great Matter" led one man to pass the Act of Supremacy and create the Anglican church. For 10 points, name these people who included Catherine of Aragon and Anne Boleyn, the six spouses of a certain English king.

ANSWER: wives of Henry VIII (prompt on partial answers; accept synonyms such as "spouses" or "consorts")

Bonuses

1. This piece contains a leitmotif associated with Prince Gvidon, who is a character in the opera in which it appears. For 10 points each:

[10] Name this orchestral interlude included in Act III of its composer's opera *The Tale of Tsar Saltan*, which uses rapid chromatic sixteenth notes to evoke the title flying creature.

ANSWER: "**Flight of the Bumblebee**"

[10] "Flight of the Bumblebee" was composed by this man, who included chants from the *Obikhod* in his *Russian Easter Festival Overture*.

ANSWER: Nikolai **Rimsky-Korsakov**

[10] Rimsky-Korsakov taught this other Russian composer, who wrote a Violin Concerto in A minor for Leopold Auer and the music for the ballet *Raymonda*. He also served as director of the St. Petersburg controversy from 1905 to 1930.

ANSWER: Alexander **Glazunov**

2. This mathematician laid down five postulates for the foundation of geometry, and he names an algorithm for finding GCD. For 10 points each:

[10] Name this Greek mathematician who wrote *Elements*.

ANSWER: **Euclid**

[10] Euclid was among the first to prove that there was an infinite number of these numbers by multiplying them together and adding one, showing that it must be in that set. Goldbach's conjecture states all numbers greater than two can be expressed as the sum of two of these numbers.

ANSWER: **prime** numbers

[10] This postulate of number theory states that for any integer n , there is always a prime between n and two n .

ANSWER: **Bertrand**'s postulate

3. Name some people who made incredibly bad predictions. For 10 points each:

[10] This Christian radio host and president of Family Radio predicted that the world would end on May 21, 2011. Since you are playing this tournament, you know that he was horribly incorrect.

ANSWER: Harold **Camping**

[10] This 2nd century CE Greek astronomer invented the epicycle to account for the apparent motion of the Moon and planets in his geocentric model of the Solar System. It didn't make him any more right.

ANSWER: **Ptolemy**

[10] Charles Holland Duell apocryphally claimed "everything that can be invented has been invented" while commissioner of this institution. This American institution does not administer copyrights, but covers other forms of intellectual property.

ANSWER: United States **Patent** and Trademark **Office** (or **PTO** or **USPTO**)

4. This novel opens with an insurance agent attempting to fly off the roof of "No Mercy Hospital" and ends with the protagonist leaping towards Guitar Baines. For 10 points each:

[10] Name this novel in which "Milkman" Dead learns about his family history in Shalimar.

ANSWER: **Song of Solomon**

[10] *Song of Solomon* was written by this African-American female author of *Sula*, who described an eleven-year old girl named Pecola who prays for her eye color to change in *The Bluest Eye*.

ANSWER: Toni **Morrison**

[10] In this other novel by Morrison, Sethe's title daughter haunts 124 Bluestone Road.

ANSWER: **Beloved**

5. This man was overthrown in The People Power Revolution. For 10 points each:

[10] Name this world leader who attempted to smuggle millions of dollars in gold while fleeing the country and had a wife named Imelda.

ANSWER: Ferdinand Emmanuel **Marcos Sr.**

[10] The People Power Revolution brought Corazon Aquino to power in this country. This Southeast Asian archipelago nation was named for a Spanish king, and was seized by the United States after the Spanish-American War in 1898.

ANSWER: **Philippines**

[10] This man fought for Philippine independence from Spain, and then fought an unsuccessful guerilla campaign against the U.S. when they took over.

ANSWER: Emilio **Aguinaldo**

6. Examples of these molecules include amylase, trypsin, and lipases. For 10 points each:

[10] Name these biological catalysts that foster metabolic processes.

ANSWER: **enzymes**

[10] This enzyme kinetics model relates reaction rate to the concentration of a substrate. This model, named for a German biochemist and a Canadian biochemist, was first used to model invertase.

ANSWER: **Michaelis–Menten** kinetics

[10] This interaction inhibits or activates enzymes by binding effector molecules to their namesake sites. This kind of interaction is broken down into homotropic and heterotropic types.

ANSWER: **allosteric** regulation (or **allostery**)

7. This artist depicted a suspiciously well-dressed shepherd and shepherdess in *Are They Thinking About the Grapes?* For 10 points each:

[10] Name this French painter best known for his portraits of his patron, Madame de Pompadour.

ANSWER: François **Boucher**

[10] Boucher painted in this light and frilly 18th century style. Another practitioner of this style, Jean-Antoine Watteau, included some frolicking cherubs in his *Embarkation for Cythera*.

ANSWER: **Rococo**

[10] The most famous Rococo artist, Jean-Honore Fragonard, created this painting in which a nobleman gleefully looks up the skirt of his lover. A cherub statue holds a finger to its lips on this painting's left.

ANSWER: *The* **Swing**

8. In this novel, a blind beggar sings outside of a window while the title character dies of arsenic poisoning. For 10 points each:

[10] Name this French novel about the title character, a doctor's wife who has affairs with Rodolphe and Leon.

ANSWER: **Madame Bovary**

[10] This 19th century author of the satirical *Dictionary of Received Ideas* penned *Madame Bovary*.

ANSWER: Gustave **Flaubert**

[10] This author wrote a poem about a man whose "true Penelope was Flaubert." That work by this poet is about a man who "strove to resuscitate the dead art of poetry," Hugh Selwyn Mauberley.

ANSWER: Ezra **Pound**

9. This man was succeeded by his son Hippias and instituted a five percent tax on agricultural revenues. For 10 points each:

[10] Name this man who constructed the Propylaea on the Acropolis, a ruler of Athens during the sixth century BCE.

ANSWER: **Peisistratus** (or **Peisistratos**)

[10] Peisistratus was the first of this type of ruler in Athens. Thirty of them would be forced on Athens after Athens lost a war with a rival city-state.

ANSWER: **Tyrants**

[10] That rival city-state was this city, famous for its intense military training regimens for its youths. It fought and defeated Athens in the Peloponnesian War.

ANSWER: **Sparta**

10. Answer some questions about bears. For 10 points each:

[10] This fake pundit on Comedy Central is known for his hatred of bears. His show follows *The Daily Show* and he's set to take over for David Letterman after Letterman retires.

ANSWER: Stephen **Colbert**

[10] This former Tulane player is the star running back for the Chicago Bears. He had the second most rushing yards in the NFL last season.

ANSWER: Matt **Forte**

[10] Timothy Treadwell's life among bears in Alaska for 13 summers was depicted in *Grizzly Man*, a 2005 documentary by this director of *Aguirre, the Wrath of God*.

ANSWER: Werner **Herzog**

11. This phenomenon was observed in light waves in Young's double slit experiment. For 10 points each:

[10] Name this phenomenon in which multiple waves interact destructively or constructively to form a wave with a different amplitude.

ANSWER: **diffraction** (accept **interference**)

[10] According this principle of optics, if a plane wave hits a wall with a small slit, the slit will act like a point source on the other side of the wall. It is named for its Dutch discoverer.

ANSWER: **Huygens**–Fresnel principle

[10] Modern double slit experiments can be done with the Mach–Zehnder form of these devices. Michelson and Morley used one in their experiment that disproved the theory of the ether.

ANSWER: **interferometers**

12. In one scene of this work, two hitchhikers plan to murder a travelling salesman using the signal “Pass me a match.” For 10 points each:

[10] Name this non-fiction novel by Truman Capote which centers on the murder of the Clutter family by Dick and Perry.

ANSWER: **In Cold Blood**

[10] *In Cold Blood* was a precursor to a literary movement named for the “new” form of this discipline. A very in-depth study of a story is called the “investigative” form of this discipline.

ANSWER: **journalism** [or “New **Journalism**,” or investigative **journalism**, prompt on general synonyms like “reporting”]

[10] This woman, the central character of Capote's *Breakfast at Tiffany's*, lives with the narrator in a brownstone apartment. In the novella's first chapter, the narrator finds a carved likeness of her in an African village.

ANSWER: **Holly Golightly** (accept either name, accept **Holiday** Golightly)

13. The Milky Way was created when Hera pulled this figure away from her breast while he was nursing. For 10 points each:

[10] Name this figure who was forced to perform twelve labors for Eurystheus after killing his family in a fit of madness.

ANSWER: **Heracles** (or **Hercules**; accept **Alcaeus** or **Alcides**)

[10] Heracles was aided by this nephew of his while battling the Lernean Hydra. This figure cauterized the stumps after Heracles cut off the Hydra's heads, preventing their regeneration.

ANSWER: Iolaus

[10] On his way to the Garden of the Hesperides, Heracles battled this giant, who was invincible as long as he remained in contact with the ground. This son of Gaia planned to build a temple to his father Poseidon from the skulls of travelers he killed.

ANSWER: Antaeus

14. Name some terms commonly found in philosophy texts, for 10 points each.

[10] Henri Bergson paired this concept with "Time" in one work. Fatalism is the idea that this idea is nonexistent, or that man is already destined to his fate.

ANSWER: free will

[10] John Rawls wrote *A Theory of* [this concept], which introduced both the liberty and difference principles of it. This concept is defined as moral right, and it's often conflated with law. Plato's *Republic* asked what this concept is.

ANSWER: justice

[10] This German word, which is roughly translated as "existence" or "being," was coined by Martin Heidegger in *Being and Time*.

ANSWER: dasein

15. This politician was overthrown in a revolt that began at Timisoara. For 10 points each:

[10] Name this communist politician who succeeded Gheorghe Gheorghiu-Dej and built the Centrul Civic.

ANSWER: Nicolae Ceașescu

[10] Nicolae Ceaușescu led this country from 1965 to 1989. Made up of Wallachia, Moldavia, and Transylvania, Ceaușescu gave many speeches in Revolutionary Square in its capital, Bucharest.

ANSWER: Romania

[10] During the 1960s, relations between the US and Romania took a positive turn, allowing this product to be introduced in Romania. This beverage was also sampled by Nixon and Khrushchev following the Kitchen Debate.

ANSWER: Pepsi-Cola

16. You've escaped the compulsory Jane Austen bonus for long enough. For 10 points each:

[10] This novel by Austen opens by stating that "a single man in possession of a good fortune must be in want of a wife." It ends with Elizabeth Bennet marrying Fitzwilliam Darcy.

ANSWER: Pride and Prejudice

[10] In Austen's *Northanger Abbey*, Isabella Thorpe recommends seven "horrid" books of this genre to the protagonist, leading to her obsession with this genre.

ANSWER: Gothic novels (prompt on "horror novels")

[10] The title character of this Austen novel meddles in her friends' romantic lives before getting married to Mr. Knightley.

ANSWER: Emma

17. A *yad* is employed to aid in this action, which can only be done by men in the Orthodox tradition. For 10 points each:

[10] Name this action that involves reciting verses from a certain Jewish text aloud.

ANSWER: reading the Torah

[10] A boy or girl reads from the Torah during this coming of age ceremony in the Jewish faith. Either the male or female version is acceptable.

ANSWER: bar mitzvah or bat mitzvah

[10] This term denotes a piece of parchment in a case that contains verses from the Torah. It is often posted on the doorframe of a Jewish home.

ANSWER: mezuzah (or mezuzot)

18. The Entner–Doudoroff form of this pathway is less common than the Embden–Meyerhof pathway. For 10 points each:

[10] Name this energy-generating pathway that splits glucose into two molecules of pyruvate, generating two molecules of ATP in the payoff phase.

ANSWER: glycolysis

[10] Several key enzymes in glycolysis fall in this class of enzymes, which attaches phosphate groups to molecules.

ANSWER: kinases [or hexokinases]

[10] One important enzyme that regulates glycolysis is a kinase which phosphorylates this simple sugar. This sugar bonds to glucose to form the super sweet sucrose.

ANSWER: fructose

19. A 2014 election in this country pits Abdullah Abdullah against Ashraf Ghani Ahmadzai. For 10 points each:

[10] Name this country where Mullah Mohammed Omar has led the Taliban since 1994. This country was invaded by the Soviet Union in 1979.

ANSWER: Afghanistan

[10] This incumbent Afghani president who took office in 2001 is ineligible for reelection. He has improved relations with the United States and was the target of several assassination attempts by the Haqqani network.

ANSWER: Hamid Karzai

[10] The 2001 US invasion caused a boom in the price of this cash crop, which is produced in the “Golden Crescent.”

ANSWER: opium

20. One man who witnessed this event, Henry Rathbone, later went crazy and tried to murder his wife and children. For 10 points each:

[10] Name this event that occurred in Ford’s Theater on Good Friday and involved John Wilkes Booth’s successful attack on the 16th president of the United States.

ANSWER: assassination of Abraham Lincoln (accept various synonyms for assassination like murder or death)

[10] The same night, this man, Lincoln’s Secretary of State at the time, was stabbed in the neck by Booth’s co-conspirator Lewis Powell, but was saved by a neck brace he was wearing.

ANSWER: William Henry Seward

[10] An earlier assassination plot against Lincoln was apparently led by a Corsican hairdresser in this city. Union soldiers were attacked in this city’s Pratt Street Riot.

ANSWER: Baltimore