

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

Packet 2

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Tossups

1. **One minor character in this work is a patient at an asylum who declares “Life is all I want” and eats animals to gain their strength. That character, Renfield, is killed by the title character, and the title character at one point takes a journey on the boat Czarina Catherine. The Texan cowboy Quincey Morris is killed at the end of this book; he was part of a group that included Doctor (*) Seward and Arthur Holmwood.** This novel’s epilogue sees the narrator happily living with Mina Murray, whose scar had disappeared after the death of the main character. Jonathan Harker narrates much of this work. For 10 points, name this novel where Van Helsing kills the title vampire, a work of Bram Stoker.

ANSWER: Dracula

2. **Shortly before this event, a fleet of destroyers was evacuated in the Peking Plan, and this event began after the seizure of a radio station by disguised troops. This event led to the creation of the AK, or Home Army, and General Guderian originated the myth that, during it, one group charged tanks with swords and lances. A group of civilians held a (*) post office for fifteen hours during this event, which was followed by a period of military inactivity called the Phoney War.** This event was allowed by a secret protocol in the Molotov–Ribbentrop pact, and it began on September 1, 1939. For 10 points, name this Nazi campaign that began World War II.

ANSWER: Nazi invasion of Poland (accept anything indicating a German campaign into Poland; accept Case White, or Fourth Partition of Poland, or September Campaign until mentioned; prompt on “World War II”)

3. **A form of this organelle in plants contains isocitrate lyase and malate synthase, and facilitates the glyoxylate cycle. Humans lack the uric acid oxidase usually found in them, and are thus susceptible to gout. Fungal (*) Woronin bodies are analogous to these organelles, whose malfunction can lead to overaccumulation of phytanic acid in Refsum disease and Zellweger syndrome.** Very long chain fatty acids are broken down by, for 10 points, what organelles that use catalase to break down their namesake compound, H₂O₂.

ANSWER: peroxisomes

4. **Irvine Arditti mastered a set of virtuosic violin etudes by this composer originally written for Paul Zukofsky. This composer referred to the hexagrams of the *I Ching* to determine the compositional elements of his *Music of Changes*. This composer required placing screws, bolts, and an eraser between the (*) strings of an instrument in preparation for performing his collection of *Sonatas and Interludes*.** Kyle Gann’s *No Such Thing As Silence* is about one of this man’s pieces, which consists of three movements of ambient noise for the title length of time. For 10 points, name this experimental American composer of the completely silent 4’33”.

ANSWER: John Cage

5. **Salvador Dali’s *Christ of Saint John on the Cross* is housed in the Kelvingrove Art Gallery in this city. The Treaty of Perpetual Peace was signed by one king in this city’s cathedral. A building nicknamed the “Armadillo” that was designed by Norman Foster lies on the River Clyde that runs through this city. This city’s large modern necropolis contains a large monument to John (*) Knox, and this city is home to the Old Firm rivalry between soccer clubs Celtic and Rangers.** For 10 points, name this city located about sixty miles from Edinburgh, the largest city in Scotland.

ANSWER: Glasgow, Scotland

6. This man claimed that he adapted one policy after he “tried to talk about good roads and good schools and nobody listened.” During one campaign, this politician dubbed Albert Brewer a “sissy britches,” and this man got his wife Lurleen elected as a proxy governor after exceeding his term limit. This man considered Colonel Sanders as a running mate for one campaign, but ultimately chose (*) nuclear weapons enthusiast Curtis Lemay. Arthur Bremer shot and paralyzed this man, and this politician won five states as the American Independent candidate in 1968. Known for supporting “segregation forever,” for 10 points, name this governor of Alabama.

ANSWER: George Wallace

7. A programmer can reduce the overhead of these entities by repeating statements within them in a technique known as their namesake “unrolling.” COBOL implements these constructs using the PERFORM statement. Tail recursion can be simplified using these constructs. They can be replaced by (*) Iterators. Selection sort is commonly implemented using one of these constructs nested within another one of them. Infinite ones can cause a program to become unresponsive. For 10 points, name these constructs which include for and while, methods of control flow that allow program statements to be iterated.

ANSWER: loops (accept specific answers like for loops or while loops)

8. One technique used in this game series uses the L-button to slide along the surface of the ground and is known as “wavedashing.” Announcements about one entry in this game series were posted on a website known as the “dojo.” One character who will appear in a future game in this series is the Villager. One single-player mode in an entry in this game series is the Subspace (*) Emissary, where characters like Wolf and ROB can be unlocked. The first entry in this game series only contained ten characters, including Jigglypuff and Captain Falcon. For 10 points, name this game series whose entries include “Brawl” and “Melee,” a Nintendo franchise where characters like Pikachu and Mario fight each other.

ANSWER: Super Smash Brothers (accept specific entries in the series like Brawl or Melee before mentioned)

9. One novel from this country features a village priest who hides his own lack of faith and is seen as the titular “good martyr” by the townspeople. An author from this country wrote two puppet plays about a billy-club-wielding old man and a play that ends with the title woman crying “I myself have killed my son!” The home of an author who reimaged the biblical (*) Abel as a painter, this country is also the setting of a play in which the Groom and Leonardo kill each other, *Blood Wedding*. For 10 points, name this country whose 20th century literary figures include Miguel de Unamuno and Federico García Lorca.

ANSWER: Spain

10. A character with this profession is captured by the mistress of Pohjola and has his wife killed by Kullervo’s curse. Ilmarinen holds this profession, as does a character who is hamstrung on an island after marrying a snow-maiden. Erichthonius was born when the seed of a god with this profession landed on the thigh of Athena; that deity was raised by Thetis on (*) Lemnos after falling through the sky for an entire day. Wayland is the common English name of a character with this profession responsible for creating Gram, and a god with this profession was the lucky husband of Aphrodite. For 10 points, name this profession, which Hephaestus served as for the gods.

ANSWER: blacksmith (accept forge gods or characters)

11. According to the Bloch–Gruneisen formula, this quantity increases linearly with temperature in metals. The skin effect causes an effective increase in this quantity at higher frequencies. The presence of this quantity introduces (*) damping into an LC circuit. This quantity is proportional to the length of a wire and inversely proportional to the square of its radius. The voltage in a circuit is equal to current times this quantity

according to Ohm's law. For 10 points, name this quantity with units ohms that measures how much something opposes the flow of a current.

ANSWER: electrical resistance (accept resistivity; accept impedance)

12. The papal bull *Exsurge Domine* explicitly endorsed this action “solemnly in front of the clergy and the people.” The Twelve Theses were posted before one of the most notable instances of this action. One famous event of this type is often paired with the “burying of the (*) scholars.” That event was organized by Lǐ Sī under the purview of Qín Shǐ Huángdì. A memorial to commemorate one of these actions is an empty glass case in the Bebelplatz and that action was promoted by Joseph Goebbels to eliminate degenerate and “Jewish Intellectual” art. For 10 points, name this type of event in which works by people like Boccaccio and Pablo Neruda are incinerated.

ANSWER: book burning

13. The Norito-sōjō is said before this ceremony in one religion in which the Sakaki branch is also used. Along with those practices of Shintoism, the Sindoor is worn after this ceremony in Hinduism. In Islam, this practice is preceded by a *walīma* after the *mahr* is signed. In the Unification Church, this practice is done (*) en masse. In Judaism, this ceremony is done under a *chuppah*, and one participant in this ceremony breaks a glass with his foot. For 10 points, name this ceremony in which people exchange rings and are joined together for life.

ANSWER: marriage (or weddings)

14. The protagonist of this story notes that a man has grey eyes, the mark of “all famous marksmen.” In the second scene of this story, a man sitting with his wife is told of a “great quantity of driftwood” by a disguised horseman. The protagonist is surprised by what a wild region he lives in while walking all day through a dark wood. This story ends with the protagonist attempting to (*) embrace his wife before a “blinding white light” blazes around him, thus revealing his adventure to be the fantasy of a dying man. For 10 points, name this story in which Peyton Farquhar is hung from the title structure, a Civil War story by Ambrose Bierce.

ANSWER: “Occurrence at Owl Creek Bridge”

15. This artist wrote “I don't know if I'll be able to paint the postman as I feel him” in reference to his portrait of a man with a forked beard in a blue uniform. While at an art academy, he painted a skull smoking a cigarette. One of his paintings depicts a man in a white (*) coat whose legs disappear behind a green pool table standing in the middle of a room populated by drunks. A large yellow bed appears in his *Bedroom at Arles*, and he painted himself with a bandaged ear in one of his last self-portraits. Known for his paintings of sunflowers, for 10 points, name this Dutch artist of *Starry Night*.

ANSWER: Vincent van Gogh

16. The Perkin triangle, which is now typically not triangular, is used to perform this procedure in an inert atmosphere. It is not chromatography, but efficiency is improved in this procedure with an increasing number of theoretical plates. An (*) entrainer may be added to the mixture in this technique in order to isolate components of azeotropes. The alcoholic content of beverages is typically capped at around 96% ethanol due to the inability of this procedure to remove water. For 10 points, identify this procedure that relies on a difference in boiling points to separate parts of a mixture.

ANSWER: distillation

17. This mountain range contains a city overlooked by the Narikala Fortress. The Aras and Kura rivers flow through this mountain range. The so-called Mountain Jews get their name from being from regions that this mountain range runs through, such as Dagestan. This range contains large cities like Grozny and (*) Tbilisi. This mountain range's highest peak is also Europe's highest peak, Mount Elbrus. For 10 points, name this range that runs through Russia, Georgia, Azerbaijan, and Armenia that is located on the border between Asia and Europe.

ANSWER: Caucasus Mountains

18. One member of the neo-*this* school of philosophy wrote that the concept of “truth” means nothing in *Contingency, Irony, and Solidarity*, and that man also wrote *Philosophy and the Mirror of Nature*. Before Richard Rorty, members of this school included a logician who wrote “How to Make Our Ideas Clear.” This school included a man who discussed aesthetics in *Art as Experience*, but more famously covered (*) education in works like *Democracy and Education*. C. S. Peirce (“purse”) was a member of this school of philosophy. One member of this school called it a “new name for some old ways of thinking.” For 10 points, name this primarily American school of philosophy whose members included John Dewey and William James.

ANSWER: Pragmatism

19. One story by this author ends “Glory to him who does not die” and describes an Arabian king who leaves a Babylonian king in the middle of the desert. In another of his stories, a detective finds a dead rabbi in a hotel room and is lured Triste-le-Roi by Red Scharlach. The protagonist of one of this author’s stories is told of his ancestor’s work in the Pavilion of the Limpid Solitude by a man whom he (*) murders to send the name of a city to The Chief. In that story, Yu Tsun, a spy for Germany, learns of the title book from Doctor Albert. For 10 points, name this author of the short stories “Death and the Compass” and “The Garden of Forking Paths,” a blind Argentinian.

ANSWER: Jorge Luis Borges

20. One person with this surname was married to Alfonso of Aragon who was strangled after not dying from stab wounds. Another person with this last name held the Banquet of Chestnuts. One man with this surname issued the bull *Inter Caetera* and authored the Treaty of Tordesillas. That man would be succeeded as Pope by (*) Pius III, who lasted only twenty-six days and was succeeded by Julius II. In one book, a man with this surname is described as someone who “could not be a better example for a new prince” and was called “the fox” by Niccolò Machiavelli. For 10 points, name this surname shared by Pope Alexander VI and his children Lucrezia and Cesare.

ANSWER: Borgia (or Borja)

Bonuses

1. The second law of thermodynamics states that this quantity can never decrease. For 10 points each:

[10] Name this quantity that roughly measures the amount of disorder in a system.

ANSWER: **entropy**

[10] In statistical mechanics, the entropy is this function of the number of microstates of this system. The electric potential due to an infinite line charge also goes like this function of the distance.

ANSWER: natural **logarithm**

[10] The von Neumann entropy is this operation performed on the density matrix times the log of the density matrix. This operation is the sum of the eigenvalues of a matrix, or the sum of the diagonals.

ANSWER: **trace**

2. The main character of this play forces her valet to dance with her even though he is engaged to Christine. For 10 points each:

[10] Name this play, at the end of which the valet Jean hands the title woman a razor for her to commit suicide.

ANSWER: **Miss Julie**

[10] This Swedish writer told of Arvid Falk's bohemian lifestyle in *The Red Room* and wrote the plays *The Ghost Sonata* and *Miss Julie*.

ANSWER: August **Strindberg**

[10] Strindberg's play *The Father* focuses on a character named Laura, also the name of the title character in this play. This play focuses on Laura Wingfield who hangs out with a gentleman caller named Jim O'Connor and was written by Tennessee Williams.

ANSWER: The **Glass Menagerie**

3. Answer the following about a recent disease outbreak in Africa. For 10 points each:

[10] The outbreak began in February 2014 and was an outbreak of this hemorrhagic fever that is closely related to Marburg virus.

ANSWER: **Ebola** hemorrhagic fever

[10] The outbreak originated in Macenta, Dabola, and Conakry, three cities in this African nation north of Sierra Leone.

ANSWER: **Guinea**

[10] This organization has called for a worldwide response to help combat the epidemic and recently opened a Special Session on the disease. This branch of the United Nations deals with public health issues like malaria and polio.

ANSWER: **World Health Organization** [or **WHO**]

4. The Black Guard was formed by a long-time holder of this post, Ismail Ibn Sharif. For 10 points each:

[10] Name this post, held by a member of the Alaouite dynasty since the 17th century and currently held by Mohammed VI.

ANSWER: **King** of **Morocco**

[10] Mohammed VI is incredibly corrupt, much like Zine El Abidine Ben Ali, a former leader of this almost-neighbor of Morocco who was overthrown in 2011. That revolution in this country began with Mohamed Bouazizi's self-immolation in Sidi Bouzid.

ANSWER: **Tunisian** Republic

[10] The revolution in Tunisia helped kick off this larger revolution against dictators in North Africa and the Middle East. This series of demonstrations kicked out Ali Abdullah Saleh in Yemen and Hosni Mubarak in Egypt.

ANSWER: **Arab Spring**

5. Name some musicals. For 10 points each:

[10] This Rodgers and Hammerstein musical about Maria and the Von Trapp family was turned into a movie starring Julie Andrews. Its songs include “My Favorite Things” and “Climb Every Mountain.”

ANSWER: The *Sound of Music*

[10] This musical, based off the writings of Damon Runyon, depicts Sky Masterson and famously features the number “Luck Be a Lady.”

ANSWER: *Guys and Dolls*

[10] The Yorkey and Kitt musical *If/Then* starred this actress in the lead role in its original cast. This actress is also known for portraying the original Elphaba in *Wicked*.

ANSWER: Idina Menzel [or Idina Kim Mentzel; or Adele Dazeem]

6. Answer some questions about concepts in economics and examples of them in action. For 10 points each:

[10] This term in economics describes a general increase in the prices of goods and services over time. Historical examples of the “hyper” form of this occurred in places like Chile in the late 1980s.

ANSWER: inflation

[10] This kind of situation from Keynesian economics occurs when people hold on to their money expecting deflation to occur, thereby rendering increases in the money supply ineffective in lowering interest rates. The classic example of this occurred in 1990s Japan.

ANSWER: liquidity trap

[10] This term refers to the idea of parties weighing relative opportunity cost when it comes to specialization in the manufacturing of a good. David Ricardo used the examples of England and Portugal making cloth and wine, respectively.

ANSWER: law of comparative advantage

7. The title character of this book travels with a sailor named Dirk Peters. For 10 points each:

[10] Name this novel about a stowaway on the *Grampus* who endures all sorts of misfortunes and eventually ends up near the South Pole.

ANSWER: The Narrative of *Arthur Gordon Pym*

[10] *The Narrative of Arthur Gordon Pym* is by this American author and poet from Baltimore, who is more famous for poems like “Annabel Lee” and “The Raven.”

ANSWER: Edgar Allan Poe

[10] This other poem by Poe constantly repeats words like “twinkle” and “time,” and frequently uses words like “jangling” to describe the “tales” told by the title objects.

ANSWER: “The Bells”

8. The mycobacterium that causes this disease is closely related to tuberculosis. For 10 points each:

[10] Identify this bacteria that usually requires six-month-long treatment with rifampicin and dapsone, also known as Hansen’s disease.

ANSWER: leprosy

[10] Leprosy and other mycobacteria are detected using the Ziehl–Neelsen stain, which uses carbol fuchsin and a methylene dye of this color. Litmus paper turns this color under basic conditions.

ANSWER: blue

[10] The only non-primates subject to leprosy are these animals, whose extinct ancestors include pampatheres like the glyptodonts. Unlike other xenarthrans, these animals moved into America in the Great American Interchange.

ANSWER: armadillos

9. This king was preceded by Louis V, and his friendship with the future Pope Sylvester II led to his ascension to the throne. For 10 points each:

[10] Name this founder of a dynasty of French kings, who was succeeded by Robert II.

ANSWER: Hugh Capet (prompt on “Capet”)

[10] Hugh’s father, who was also named Hugh, rebelled against Louis IV along with William Longsword, a ruler of this region in northern France. This region would eventually be targeted in Operation Overlord on D-Day.

ANSWER: Normandy

[10] The last totally-Capetian king before the Valois took over had this regnal name, also the name of kings of France with the epithets “the fat” and “the simple.”

ANSWER: Charles

10. A dwarfish man with a distorted red face leans towards two men engaged in this activity in the painting *Both Members of this Club*. For 10 points each:

[10] Identify this activity depicted in paintings of George Bellows such as *Stag at Sharkey’s*.

ANSWER: boxing

[10] George Bellows was associated with this artistic movement loosely associated with The Eight. This school gets its name from the gritty scenes of poverty in New York City that its members painted.

ANSWER: Ashcan school

[10] This other American artist showed a victorious boxer greeting a crowd in his painting *Salutat*. He may be better known for a painting depicting the title professor conducting a surgery in a lecture hall, *The Gross Clinic* and for painting a solitary rower on the Schuylkill in *Max Schmitt in a Single Scull*.

ANSWER: Thomas Eakins

11. After Rebecca Cornell died in a house fire in this colony’s town of Portsmouth, her son was hung for her murder after a witness claimed to have spoken to Rebecca’s ghost. For 10 points each:

[10] Name this New England colony, originally called “Providence Plantation,” that became a haven for religious dissenters.

ANSWER: Colony of Rhode Island and Providence Plantation (accept Providence Plantation if given before read)

[10] This man founded Rhode Island after being expelled from Massachusetts. He outlined his ideas of religious freedom in the tract *The Bloody Tenent of Persecution*.

ANSWER: Roger Williams

[10] Williams also wrote *The Bloody Tenent yet more Bloody* after this theologian denounced his ideas in *The Bloody Tenent Washed and Made White*. This man’s daughter and her husband, Increase Mather, named their son after him.

ANSWER: John Cotton

12. This theory was put forward by Harry Hess as a possible explanation for continental drift. For 10 points each:

[10] This process occurs at mid-ocean ridges, and involves the creation of new continental crust where plates are moving apart.

ANSWER: seafloor spreading

[10] Seafloor spreading is caused by convection currents in this layer of the mantle. This layer is below the lithosphere and is much weaker and hotter than the lithosphere.

ANSWER: asthenosphere

[10] This is the theory describing how solid continental plates rest in the fluid asthenosphere. The plates are in equilibrium with the asthenosphere, so that gravitational and buoyant forces are equal and opposite.

ANSWER: isostasy or isostatic theory

13. A character in this opera compares his lover to the painting he has just completed in the aria “Recondita amoria.” For 10 points each:

[10] Name this opera about a painter who falls in love with the title character, who stabs Baron Scarpia to save him from a firing squad.

ANSWER: Tosca

[10] *Tosca* is an opera by this Italian composer of *Turandot* and *Gianni Schicchi*.

ANSWER: Giacomo Puccini

[10] Puccini wrote an opera set in this country featuring characters like Billy Jackrabbit and Sonora. A composer from this country composed *The Mighty Casey*, an opera based on a poem by an author from here.

ANSWER: United States of America

14. One character in this novel strongly resembles Henry Fonda and disguises himself with glasses and a mustache when he plays basketball. For 10 points each:

[10] Name this war novel by Joseph Heller, titled for a military rule that forces the protagonist to continue flying bombing missions.

ANSWER: Catch-22

[10] The protagonist of *Catch-22* is this man. At the beginning of the novel, this character is staying in the military hospital where he vandalizes the letters he is ordered to censor and signs his work “Washington Irving.”

ANSWER: Captain John Yossarian (accept either underlined name)

[10] Later, this character, a minister, is interrogated on suspicion of being “Washington Irving.” The first paragraph of *Catch-22* states that “The first time Yossarian saw [this character] he fell madly in love with him.”

ANSWER: the Chaplain (accept any of these names: Albert Taylor Tappman or A. T. Tappman)

15. This fruit was thought to have been “the fruit of the dead” as it sprang from the blood of Adonis. For 10 points each:

[10] Name this fruit whose seeds were fatefully consumed by Persephone when she was forcibly taken to the underworld by Hades, thus dooming her to spend six months there every year.

ANSWER: pomegranates

[10] This Greek goddess of the harvest was the mother of Persephone.

ANSWER: Demeter (do not accept “Ceres”)

[10] Demeter’s search for her daughter after her kidnapping took her to this town ruled by Celeus, which names a series of “mysteries” that served as initiation rites for the cult of Demeter and Persephone in Ancient Greece.

ANSWER: Eleusis (accept Eleusinian mysteries)

16. This poet wrote “I’d rather be / A pagan suckled in a creed outworn” in his poem “The World Is Too Much With Us.” For 10 points each:

[10] Name this pioneer of the Romantic movement who published *Lyrical Ballads* with Coleridge. This poet also wrote *The Prelude* and “Tintern Abbey.”

ANSWER: William Wordsworth

[10] In Wordsworth’s “Strange fits of passion have I known,” the speaker suddenly wonders if a character of this name might be dead. In total, he wrote five poems to a deceased girl of this name.

ANSWER: Lucy

[10] Wordsworth wrote a poem beginning “I wandered lonely as a cloud” in which the speaker sees a “host” of these “golden” flowers.

ANSWER: daffodils

17. These entities correspond to saddle points on a potential energy surface. For 10 points each:

[10] Name these entities which appear in reactions between the reactants and the products. During chemical reactions, these states are represented as the highest peak on a graph of energy versus time.

ANSWER: **transition states**

[10] According to this statement, the structure of a transition state mimics the structure of the starting material or product of a reaction.

ANSWER: **Hammond**–Leffler postulate

[10] Analysis with potential energy surfaces is often used in conjunction with the Born–Oppenheimer approximation which treats this object as stationary. This object contains all of the positive charge in an atom.

ANSWER: **nucleus**

18. Answer the following about medieval music and its influence. For 10 points each:

[10] Medieval polyphonic compositions were often based on these “fixed songs” which provided the fixed melody of the chant. Famous examples include “L’homme armé” and “Fortuna desperata.”

ANSWER: **cantus firmus**

[10] The polyphonic technique arose from organum, in which an additional voice was added to the chant to augment the harmony. Organum was developed by Léonin and Pérotin, two composers from the Notre Dame School based in this country.

ANSWER: **France**

[10] This Italian composer of the Renaissance further explored polyphony with his influential *Pope Marcellus Mass*.

ANSWER: Giovanni Pierluigi da **Palestrina**

19. Members of this sect eschew all forms of birth control and it was influenced by the books of Mary Pride. For 10 points each:

[10] Name this Protestant sect that believes in extreme natalism, the idea that one should have as many children as possible.

ANSWER: **Quiverfull**

[10] Quiverfull Protestants base their natalism on the verse “be fruitful and multiply” from chapter nine of this book of the Bible, the first. Events in this book include the creation of the world.

ANSWER: **Genesis**

[10] In Genesis, Hagar mothers this child with Abraham. Muslims believe that this man is the ancestor of the Arabs and the patriarch of Islam.

ANSWER: **Ishmael**

20. Answer the following about people who were murdered while praying. For 10 points each:

[10] After this Archbishop of Canterbury resisted the reforms of the Constitutions of Clarendon, some knights of Henry II murdered him in the cathedral.

ANSWER: Saint Thomas a **Becket**

[10] Canute IV, a canonized king of this country, was slain by a mob of peasants in an abbey. This Scandinavian country was christianized by Harald Bluetooth and ruled England under such kings as Canute the Great.

ANSWER: Kingdom of **Denmark**

[10] A count from this region was killed by the Erembald family while praying. This region contains the cities of Bruges and Antwerp and combines with Wallonia to form a country.

ANSWER: **Flanders**