

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

Packet 4

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Tossups

1. **This play opens with a porter delivering a christmas tree, and this play features a man who refers to his wife as a “little squirrel.” One character in this play is dying of “tuberculosis of the spine,” a euphemism for syphilis. Near the end of this play’s second act, a woman in an Italian costume dances the tarantella to distract another character from (\*) opening his locked letterbox, which contains a letter from a bank employee revealing the protagonist’s forgery of her father’s signature. This play ends with the sound of a door slamming as the main character leaves her family. For 10 points, name this play featuring Nora Helmer by Henrik Ibsen.**

ANSWER: A Doll’s House

2. **The Bouguer anomaly is a correction for measuring this quantity which takes height and local terrain into account. The hypothetical surface for which this force is constant is called the geoid. Helmert’s equation gives a tiny correction for the effect of (\*) latitude on this force. This force feels lower near the equator where it is partially negated by centrifugal force, and the acceleration due to this force is equal to about 9.8 meters per second squared. For 10 points, name this force on the earth which causes things to fall.**

ANSWER: gravity of the earth

3. **Kondratiev Waves have been proposed as an alternative to these phenomena. Debt deflation was put forth by Irving Fisher as a way to explain these phenomena. The Austrian School believes these phenomena occur due to artificially low interest rates, and these phenomena are typically graphed on a plot of time to (\*) growth. These phenomena are the expansions and recessions of GDP in an economy. For 10 points, name these fluctuations that are also called boom and bust cycles, that refer to periods of slow and fast economic growth.**

ANSWER: Business Cycles (accept Boom and Bust Cycles until mentioned; accept Economic Cycles)

4. **The Escopeteros were a group of scouts who aided on side in this conflict. The Battle of Yaguajay led to the capture of the city of Santa Clara during this conflict. Many of the core members involved in this conflict were transported on the *Granma* yacht, and were members of the (\*) 26th of July Movement. The Sierra Maestra mountain range was the site of many battles during this conflict. It resulted in the overthrow of the leader of the Sergeants’ Revolt, Fulgencio Batista. For 10 points, name this conflict led by Che Guevara and the brothers Raul and Fidel Castro that took over an island about 100 miles from Florida.**

ANSWER: Cuban Revolution (or Fidel Castro’s Revolution)

5. **Initiates to this religion undergo an action called *pile fey* or “crushing of leaves” during the Bat Ge ceremony as part of its initiation rite. The spirits of this religion are divided into different *nanchons*, which include *Rada* and *Petwo*. People of this religion gather in temples called Hounfour to view services conducted by (\*) mambos and hounsans. Members of this religion believe in a creator god called Bondye and worship spirits called *loa*. For 10 points, name this syncretic religion that combines elements of Catholicism and West African beliefs, practiced in Louisiana and Haiti.**

ANSWER: Haitian Voodoo

6. **Along with Ahmad Jamal, one player of this instrument was a bandleader who composed the tunes “April in Paris” along with his signature “One O’Clock Jump.” Another player of this instrument composed**

**“Straight, No Chaser” and “Round Midnight.”** Count (\*) Basie and Thelonious Monk played this instrument, which was also played by a man who experimented with time signatures in his “Blue Rondo a la Turk” and “Take Five.” Perhaps the most famous jazz musician who played this instrument composed “Mood Indigo” and “Sophisticated Lady.” For 10 points, name this instrument played by Dave Brubeck and Duke Ellington, who had to sit down to play it.

ANSWER: piano (prompt on keyboard)

**7. One of this author’s plays contains a conversation about the apostle’s accounts of the crucifixion and a scene in which a boy mentions the goats that one man keeps. In that play of his, one character gives a monologue that mentions the “works of (\*) Puncher and Wattman”** after being ordered to speak by a man who appears to be blind in its second act. This author is best known for a play set on a “country road” featuring Pozzo, Lucky, and two tramps in bowler hats. For 10 points, name this author of *Waiting for Godot*.

ANSWER: Samuel Beckett

**8. This people won the *Mabo* case granting them access to some of their stolen land. One action against this people was taken due to the “doomed race” theory of A. O. Neville. A report about an action that was taken against this group was titled *Bringing Them Home*. The so-called (\*) “Sorry Speech” was given by Kevin Rudd to apologize for actions taken against these people. For 10 points, name this people, many of whose children were taken from them as part of the Stolen Generation, the original inhabitants of places like Perth and Melbourne on the world’s smallest continent.**

ANSWER: Australian Aborigines (or Australian Indigenous)

**9. This man sang “I’m running on the bad side/ and I got my back to the wall” in a song with a nonsense title, and this singer of “Tenth Avenue Freeze-Out” is more famous for a song where he sings “At night we run through mansions of glory in (\*) suicide machines.”** This artist behind the albums *The River* and *Nebraska* collaborated with the late Clarence Clemons and wrote one song about a disillusioned Vietnam vet. For 10 points, name this New Jersey-born singer of “Jungleland,” “Born to Run,” and “Born in the U.S.A.,” known for working with the E Street Band.

ANSWER: Bruce Springsteen

**10. Spherical harmonics are eigenstates of this quantity, and the no hair theorem says that black holes only have mass, charge, and this quantity. The s, p, d, and f orbitals have values 0, 1, 2, and 3 for this quantity, respectively, and the quantum number for this quantity is always (\*) less than the principal quantum number. The time derivative of this quantity is torque. This is equal to moment of inertia times angular velocity, and spin is an “intrinsic” form of this quantity. For 10 points, name this rotational analogue of momentum.**

ANSWER: orbital angular momentum (prompt on “spin”; do not accept “momentum”)

**11. In one novel from this country, the narrator returns from Dead’s Town with his deceased servant, a tapster. One author from this country wrote a play in which Simon Pilkings fails to prevent Elesin from (\*) strangling himself with his chains. Another novel from this country features a character who once wrestled a man called “the cat;” that protagonist goes into exile after his gun explodes and kills a child and later hangs himself after decapitating a messenger of the district commissioner. For 10 points, identify this country home to Wole Soyinka and Chinua Achebe.**

ANSWER: Nigeria

**12. According to the *Book of the Heavenly Cow*, this deity’s soul was represented by the ram-headed god Banebdjed. This god’s son once tricked a rival into using a stone boat. This figure was trapped inside a pillar in the palace of the king of Byblos, and he was often depicted wearing the (\*) Atef crown. This eldest son of**

Geb and Nut was chopped into fourteen pieces by his brother Set, all but one of which were gathered by his wife. That wife fashioned a golden phallus for him after reassembling his body, leading to the conception of Horus. For 10 points, name this husband of Isis, the green-skinned Egyptian god of the dead.

ANSWER: Osiris (accept Usiris or Asar)

13. Along with John McCain, this man was implicated in and later exonerated from a scandal involving a bribe from Lincoln Savings, which led to him being known as one of the Keating Five. In 1984, this man ran against Walter (\*) Mondale for the Democratic presidential nomination, which followed his portrayal by Ed Harris in a film based on a Tom Wolfe book. A close associate of the Kennedy family, this man served as a senator for twenty-four years following his resignation from NASA. For 10 points, name this sole surviving Mercury pilot, the first American to orbit the Earth.

ANSWER: John Glenn

14. The artist of this painting was allegedly inspired to create it after serving a guest wine and cheese. One version of this painting features a dead fish, and the rocky cliffs on this painting's right side were based on the artist's childhood home. In the center of this painting, a creature with long (\*) eyelashes and a lolling tongue lies on the ground. A red object in this painting is covered in ants, and this work is the subject of a "Disintegration" by the same painter. For 10 points, name this painting featuring a bare tree and a table over which some melting clocks are draped, a work of Salvador Dali.

ANSWER: *The Persistence of Memory*

15. In 1953, the first maser passed a beam of these molecules through a nonuniform electric field. Alkali metals dropped in a solution of this chemical produces solvated electrons, which turn a deep blue color. The Tollens reagent is a solution of silver nitrate and this chemical. The human body converts this chemical into (\*) urea. This chemical, which is oxidized into nitric acid via the Ostwald process, is produced through the direct combination of three hydrogen molecules and one nitrogen molecule in the Haber–Bosch process. For 10 points, name this chemical with formula  $\text{NH}_3$ .

ANSWER: ammonia

16. In one scene of this novel, one character attempts to wash another's kiss off in a brook. This novel's frame story is narrated by a man who is irritated by his lazy co-workers at a custom house. One character in this novel was held captive by Indians for several years and is described as having crooked shoulders. In one scene of this novel, a (\*) comet is seen in the sky as three characters hold hands on a scaffold. While giving a sermon later on that scaffold, Arthur Dimmesdale announces that he is the father of Pearl. For 10 points, name this novel in which Hester Prynne is forced to wear the title symbol for her adultery, a work of Nathaniel Hawthorne.

ANSWER: *The Scarlet Letter*

17. William Plomer wrote the libretto of this man's *Curlew River*, which was part of a set of church parables he wrote for the Parish Church of St. Bartholomew in Orford. This man's included a first movement choral solo entitled "What passing bells" as part of a six movement mass created for the dedication of the Coventry (\*) Cathedral. Another of this man's works was inspired by a theme from Henry Purcell's incidental music to *Abdelazer* and was intended to introduce children to classical music. For 10 points, name this British composer of the Wilfred Owen-inspired *War Requiem* and *The Young Person's Guide to the Orchestra*.

ANSWER: Benjamin Britten

18. This region's president is known as the Lehendakari. Companies like BBVA and Iberdrola have made this region the wealthiest per-capita in its country. The capital of Álava Province, Vitoria-Gasteiz is this region's second largest city and unofficial home of its parliament. This region's largest city is home to a

**branch of the Guggenheim museum, and in recent years, (\*)** ETA has ceased violent operations advocating for this region's independence. For 10 points, name this region in northern Spain, and is home to cities like Guernica and Bilbao, and where a namesake language isolate is spoken.

ANSWER: Basque Country

**19. This king restricted money-lending with the Capitulary for the Jews and he called the Council of Frankfurt to condemn the adoptionist heresy. Under his reign, Peter the Deacon wrote a history of the Lombards and a miniscule script was developed by Alcuin of York. His biographer (\*)** Einhard claimed that he did not want to take the title that Leo III bestowed upon him on Christmas day. The empire of this man was divided by his grandchildren in the Treaty of Verdun. For 10 points, name this first "Emperor of the Romans," a Frankish king known as "the Great."

ANSWER: Charlemagne

**20. This compound forms a diphosphate cofactor that facilitates the function of transketolase, whose reduced activity can confirm diagnoses of Wernicke–Korsakoff syndrome. A deficiency of this compound leads to a disease characterized by peripheral (\*)** neuropathy with or without circulatory involvement, determining its "wet" or "dry" form. Consisting of a pyrimidine and thiazole ring, its scientific name denotes its inclusion of sulfur. White, de-husked rice lacks, for 10 points, what essential B vitamin whose deficiency causes beriberi, also known as thiamine?

ANSWER: vitamin B1 (accept thiamine before mentioned)

## Bonuses

1. Name some things about parallel programming. For 10 points each:

[10] It's often implemented using these constructs which are sequences of instructions that can be managed independently by a scheduler. Multiple ones can exist with a single process.

ANSWER: threads

[10] If one thread needs a resource that another thread is holding and won't release until the first thread releases a resource it needs, this condition can occur where execution is suspended.

ANSWER: deadlock

[10] Deadlocks can be avoided using locks, the simplest of which is a binary one of these entities invented by Dijkstra that count how many units of a particular resource are available.

ANSWER: semaphores

2. One poet from this country wrote about a dancing bear leading a revolution against humanity in his mock epic *Atta Troll*. For 10 points each:

[10] Name this country home to Heinrich Heine, as well as a poet who addressed the "beautiful sparkle of the gods" in his "Ode to Joy," Friedrich Schiller.

ANSWER: Federal Republic of Germany (accept Deutschland or Prussia)

[10] The most famous German poet of the 20th century is probably this author of the *Duino Elegies* who advised "you must change your life" in the poem "Archaic Torso of Apollo."

ANSWER: Rainer Maria Rilke

[10] Rilke corresponded with this other poet of collections such as *My Sister, Life*. He is better known for a novel about a physician who serves in the Forest Brotherhood and loves Lara.

ANSWER: Boris Pasternak

3. This man painted a triptych showing three melancholy figures huddled in doorways in response to the death of his lover George Dyer. For 10 points each:

[10] Name this British artist who painted several works featuring "screaming popes."

ANSWER: Francis Bacon

[10] Bacon painted *The Studies for Figures at the Base of [this scene]*. Images of this scene often feature a man wearing a crown of thorns nailed to a certain object under a plaque reading "INRI."

ANSWER: crucifixion

[10] Bacon's "screaming popes" included a depiction of Innocent X, who was also painted by this Spanish artist of *Old Woman Frying Eggs* and *Las Meninas*.

ANSWER: Diego Rodríguez de Silva y Velázquez

4. The target of this campaign was the city of Chamdo and was led by Zhang Guohua. For 10 points each:

[10] Name this military campaign that caused the exile of Tenzin Gyatso.

ANSWER: Chinese invasion of Tibet

[10] Tenzin Gyatso is more famous for holding this post, the head of the Yellow Hat sect of Buddhism.

ANSWER: Dalai Lama

[10] The Tibetan invasion wasn't the only Chinese invasion of the 1950s; they also invaded Korea after the US and South Korean forces almost crossed this river, the border between China and Korea.

ANSWER: Yalu River (or Amrok River)

5. This man was recently apprehended under the Terrorism Act of 2000. For 10 points each:

[10] Name this Irish politician arrested in April 2014 in connection with the murder of Jean McConville.

ANSWER: Gerry Adams

[10] Gerry Adams is the current leader of this Irish political party, whose name means “our selves.” It is opposed by the more conservative Fianna Fail party.

ANSWER: Sinn Féin

[10] Fianna Fail was founded by Eamon De Valera, who had a contentious relationship with this Irish paramilitary group. This group disarmed after the Good Friday Accords and carried out the Border Campaign in Northern Ireland.

ANSWER: Irish Republican Army [or IRA]

6. Based on their current personnel, name some NFL teams. For 10 points each:

[10] This team’s talented receiving corps includes Demaryius Thomas, Julius Thomas, and Wes Welker. Quarterback Peyton Manning couldn’t lead this team to a Super Bowl victory last year.

ANSWER: Denver Broncos (accept either underlined part)

[10] This team features Kendall Wright and ex-Chief Dexter McCcluster. Jake Locker might actually be the biggest star on this team now, which is bad news for all parties involved.

ANSWER: Tennessee Titans (accept either underlined part)

[10] This team’s offensive “weapons” include Titans castoff Kenny Britt and the enigmatic Brian Quick. It’s a good thing they have two high first round picks in 2014.

ANSWER: St. Louis Rams (accept either underlined part)

7. At the end of this play, Regina allows her wheelchair-bound husband to die on the stairs by withholding his medicine. For 10 points each:

[10] Name this play in which the generally awful Hubbard family plots to use Horace’s railroad bonds to finance a cotton mill.

ANSWER: The Little Foxes

[10] This playwright wrote *The Little Foxes*, as well as a prequel entitled *Another Part of the Forest*. She also penned *The Children’s Hour*.

ANSWER: Lillian Hellman

[10] In Hellman’s *Watch on the Rhine*, Kurt Muller aids the resistance against one side in this war. Philip Dick’s *The Man in the High Castle* imagines an alternate history in which the USA was conquered after this war.

ANSWER: World War II

8. This act declared yellow-dog contracts illegal and was named after a New York Representative and a Nebraska Senator. For 10 points each:

[10] Name this bill, also called the Anti-Injunction Act that aided labor unions and allowed for collective bargaining.

ANSWER: Norris-LaGuardia Act

[10] The Norris–LaGuardia Act was sort of amended by a 1947 bill that was named for Fred Hartley and a member of this family. A president from this family signed the Payne–Aldrich Tariff and succeeded Theodore Roosevelt.

ANSWER: Taft (accept William Howard Taft or Robert A. Taft)

[10] The Taft–Hartley Act paved the way for these kind of laws that are ubiquitous in the southern part of the US. These laws are some of the reasons why Volkswagen and other car companies have built plants in the south.

ANSWER: Right-to-Work Laws

9. Name some things about special relativity. For 10 points each:

[10] Though it had foundations in the work of Poincaré and Lorentz, special relativity was first fully formulated by this German scientist, who also came up with the equivalence  $E = mc^2$ .

ANSWER: Albert Einstein

[10] One consequence of special relativity is length contraction and another is this effect in which time moves differently for observers in different frames.

ANSWER: **Time Dilation**

[10] This relativistic effect corrects spin-orbit interactions to half the value they'd have by the classical analysis alone. It takes time dilation into account and is named for a British physicist.

ANSWER: **Thomas precession**

10. This son of Laërtes was held prisoner on the island of Calypso for seven years. For 10 points each:

[10] Name this husband of Penelope and father of Telemachus whose journey home is detailed in an epic by Homer. This figure feigned madness in an attempt to avoid fighting in the Trojan War.

ANSWER: **Odysseus** (accept **Ulysses**)

[10] Upon his return to Ithaca, Odysseus was greeted by this faithful dog of his. This dog shares his name with a figure whose epithet was *Panoptes*, or "All-seeing."

ANSWER: **Argus** (or **Argos**)

[10] Odysseus was also recognized by Eurycleia, who saw a scar he had sustained while on a boar hunt with this figure. According to Apollodorus, this grandfather of Odysseus also taught Heracles the art of wrestling.

ANSWER: **Autolycus**

11. A variation of this instrument used in the Renaissance and Baroque periods was known as a sackbut. For 10 points each:

[10] Name this brass instrument. Players of this instrument use a slide to change pitches as they blow through the mouthpiece.

ANSWER: **trombone**

[10] The Tuba Mirum section of this musical work opens with a trombone playing solo. This large-scale work was commissioned by Count Franz von Walsegg for the death of his wife and was left incomplete at its composer's death in 1791.

ANSWER: **Mozart's Requiem** Mass in D minor (or **K. 626**; prompt on partial answer)

[10] This composer included four trombones in the large brass section of a work dedicated "To the Czechoslovak Armed Forces," his *Sinfonietta*.

ANSWER: Leos **Janáček**

12. Identify these neurotransmitters. For 10 points each:

[10] Pyridoxal phosphate, the active form of vitamin B6, synthesizes this compound. Medium spiny neurons and purkinje cells output this neurotransmitter, which is impaired in Stiff Person Syndrome.

ANSWER: **GABA** (or **gamma-Aminobutyric acid**)

[10] Strychnine is a strong antagonist of this other inhibitory neurotransmitter, which is also the simplest amino acid.

ANSWER: **glycine** (or **Gly**)

[10] Glycine is a co-agonist for NMDA receptors, which act on this neurotransmitter important in long-term potentiation. This salt of an amino acid is a precursor for GABA and can be used as a food additive.

ANSWER: **glutamate** (do not accept "glutamic acid")

13. One author of this name wrote a satirical epic poem which opens with the title knight attacking a group of bear baiters. For 10 points each:

[10] Give this surname of the author of *Hudibras*, as well as a Victorian author of a novel in which Higgs visits the title utopia, *Erewhon*.

ANSWER: Samuel **Butler**

[10] Another novel by Butler is named *The Way of All* this organic substance. Shylock demands a pound of this substance from Antonio in *The Merchant of Venice*.

ANSWER: **Flesh** [prompt on skin]

[10] The Victorian Samuel Butler also made a prose translation of this epic poem by Homer. It covers several days of the Trojan war during which Achilles sulks in his tent.

ANSWER: **Iliad**

14. The first chairman of this political party led his country's economic miracle during the 1950s. For 10 points each:

[10] Name this political party led throughout the 1950s by Konrad Adenauer.

ANSWER: **Christian Democratic Union** (or **CDU**)

[10] The CDU is currently the ruling party in this country that reunited in 1989 after the fall of the Berlin Wall.

ANSWER: Federal Republic of **Germany**

[10] This man, who led the CDU from 1973 to 1998, presided over German reunification, but his later years were scarred by allegations of the CDU receiving illegal contributions.

ANSWER: Helmut **Kohl**

15. Answer the following about Taoism. For 10 points each:

[10] Taoism is the a religion that originated in this country, which uses the term *san jiao* to refer to the "three teachings" of Confucianism, Buddhism, and Taoism.

ANSWER: **China**

[10] This concept from Taoism describes "non-doing," that one should behave in a natural effortless way.

ANSWER: **wu wei**

[10] This Taoist philosopher from the Warring States period created a man who wonders if he is a man dreaming a butterfly or a butterfly dreaming a man in his most famous text, which shares its name with him.

ANSWER: **Zhuangzi**

16. This poem describes a man who "fluttered pulses when he said, 'Good-morning.'" For 10 points each:

[10] Name this poem, the title character of which "was a gentleman from sole to crown" before he "went home and put a bullet through his head." It was written by the poet of "Miniver Cheevy."

ANSWER: **"Richard Cory"**

[10] This author of the comic play *Van Zorn* is probably better known for writing poems about sad people like "Richard Cory" and the collection *Children of the Night*.

ANSWER: Edwin Arlington **Robinson**

[10] This author wrote a parody of Richard Cory in which his suicide was "no big surprise if you knew June," his wife. This man has written stories featuring Lake Wobegon and hosts the radio show *A Prairie Home Companion*.

ANSWER: (Gary Edward) Garrison **Keillor**

17. This event was led by a man who would be murdered a year later for fraternizing with the Okhrana. For 10 points each:

[10] Name this event in which people led by George Gapon attempted to march to the Winter Palace.

ANSWER: **Bloody Sunday** of 1905 (or Russian **Bloody Sunday**)

[10] The Bloody Sunday is sometimes seen as a catalyst for this future event that occurred in 1917 and resulted in the overthrow of Tsar Nicholas II.

ANSWER: **Russian Revolution** (accept obvious equivalents)

[10] The Russian Revolution also overthrew this chairman of the provisional government and leader of the Trudoviks, who Lavr Kornilov also attempted to overthrow.

ANSWER: Alexander **Kerensky**



18. This man coined the term “unsocial sociability” in his work “Idea for a Universal History with a Cosmopolitan Purpose.” For 10 points each:

[10] Name this preeminent German philosopher of *Critique of Judgement* and *Critique of Pure Reason*.

ANSWER: Immanuel **Kant**

[10] Kant created this concept, which states that one should act in such a way that they will that it becomes a universal law.

ANSWER: **categorical imperative**

[10] Kant argued for the abolishing of standing armies and secret treaties in an essay, which lays out a framework for the “perpetual” form of this condition.

ANSWER: **Peace** [or **Perpetual Peace**]

19. This procedure is normally done with a Bunsen burner. For 10 points each:

[10] Name this process in which a substance is heated to determine its composition by taking into account the color produced.

ANSWER: **flame test**

[10] Flame tests are not the only thing in science to use heat. Heat from the sun was used to find these spectral lines, named for a German dude.

ANSWER: **Fraunhofer** lines

[10] This element burns very bright yellow in a flame test. A compound containing a cation of this element and bicarbonate releases carbon dioxide when heated, which is helpful in cooking.

ANSWER: **sodium** (or **Na**)

20. This person co-wrote the influential cookbook *Mastering the Art of French Cooking* with Simone Beck and Louisette Bertholle. For 10 points each:

[10] Name this popular chef and television host of *The French Chef*.

ANSWER: Julia **Child**

[10] Like many other chefs, Child attended this institution where she studied with Max Bugnard. This institution is the most popular culinary school in the world.

ANSWER: **Le Cordon Bleu**

[10] Another popular television chef is this author of *Kitchen Confidential: Adventures in the Culinary Underbelly* and former host of Travel Channel’s *No Reservations*.

ANSWER: Anthony **Bourdain**