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

Packet 11

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Tossups

- 1. This man examined the reasons a certain country entered World War I in his Germany Above All. One work of this man's coined the term "collective effervescence," and he wrote in another work that the goal of a certain discipline should be to find "social facts." This author of (*) The Rules of the Sociological Method wrote about "organic" and "mechanical" solidarity in another work. This man wrote both The Elementary Forms of Religious Life and The Division of Labor in Society, but he may be more famous for a work that divides the title concept into fatalistic and altruistic varieties. For 10 points, name this French sociologist and author of Suicide. ANSWER: David Emile Durkheim
- 2. This virus disables interferon regulatory factors using the protein ICP0, and it can cause "whitlow" infections on fingertips. A potentially dangerous experimental treatment for this virus uses antagomir to reactivate this virus in the sacral or trigeminal ganglia, where it enters a latent state to (*) "hide" from the immune system. Aciclovir treats this disease, which belongs to a family that also includes the causative agents of Kaposi's sarcoma, Epstein—Barr, and chicken pox. For 10 points, identify this widespread virus that causes cold sores and genital lesions.

ANSWER: <u>herpes</u> simplex virus 1 and 2 (accept anything mentioning <u>Herpesviridae</u>, really)

3. Beings of this type known as Arham compile a short biography over fetuses, while the Dardai'l traverse the Earth seeking those who can recite a certain name. Raqib and Atid, the Kiramin Katibin, are beings of this type that maintain a ledger. During barzakh, two of them named Munkar and Nakir administer an oral exam to recent corpses. Many of these beings (*) guard Jahannam, an abyss of blazing fire. The Jinn Iblis was either one of these beings or equal to them, and became known as Shaytan after refusing to bow down to Adam. The Qur'an was transmitted to Muhammad by Jibra'il, one of these beings. For 10 points, identify these holy servants that in Islam are often analogous to Judeo-Christian figures like Gabriel or Michael.

ANSWER: angels

4. The main character of this novel witnesses a war between humans and machines after seeing a sign reading "JOLLY HUNTING." The preface to this novel is narrated by the nephew of a landlady to whom the manuscript was left. This novel's protagonist is horrified to see his wig-wearing hero using a radio while visiting a horseshoe -shaped building. After the Fancy Dress Ball, a jazz saxophonist leads (*) Hermione and the title character to a place "for madmen only," The Magic Theater. For 10 points, name this novel about Henry Haller, who believes he is half-animal, by Herman Hesse.

ANSWER: Steppenwolf

5. One man in this post resigned after Operation Eagle Claw, and this was the third and longest-held cabinet post held by George P. Shultz. A recent holder of this post said, "Colleagues, every statement I make today is backed up by... solid sources," while giving a presentation that included pictures of trucks with (*) biological weapons. Another recent holder of this post delayed a hearing due to a concussion, after which she was grilled by Ron Johnson on the death of four Americans following an attack in Benghazi. For 10 points, name this cabinet post, recent holders of which include Colin Powell and Hillary Clinton.

ANSWER: Secretary of State

6. Dulong and Petit estimated that the heat capacity of most crystalline solids was about this integer times the gas constant. A monatomic ideal gas has an average kinetic energy of this integer times kT over two because a spherically symmetric particle has this many (*) degrees of freedom. The electric field of a dipole falls off like this power of the distance. Jerk is this many time derivatives taken on position. There are this many generations of quarks and this many quarks in a proton. For 10 points, name this number which is the number of spatial dimensions in the universe.

Answer: **three** (accept **cube**; accept **negative three**)

7. One poem by this author begins "Hence, vain deluding Joys," while another concludes "Mirth with thee, I mean to live." He wrote, "Me thought I saw my late espoused Saint" in a poem about his deceased wife, and he described a dialogue with Patience in "When I consider how my light is spent." Another poem by this author describes how a woman mistakes her reflection for another person and begins with two characters (*) lying on a lake that radiates darkness. In that poem, the central figure decides it is "better to reign in hell than serve in heaven." For 10 points, name this author of a poem intended to "justify God's ways to man," the epic "Paradise Lost."

ANSWER: John Milton

8. One of these creatures crushed Acis with a boulder after being spurned by Galatea. Apollo was forced to serve Admetus after he killed some of these creatures as revenge for the death of Asclepius. Three of these creatures fashioned Hades' helmet of invisibility, Poseidon's trident, and Zeus' (*) thunderbolts. In addition to Brontes, Steropes, and Arges, these creatures include a son of Poseidon that was outsmarted by a figure who called himself "Nobody." That one was Polyphemus, who was blinded by Odysseus. For 10 points, name these one-eyed giants from Greek mythology.

ANSWER: Cyclops (or Cyclopes)

9. Descriptive answer acceptable. A member of this organization is shown blindfolded in John Tenniel's cartoon "Blind Man's Bluff." This organization published copies of a letter which stated "they say I'm a doctor now," the "Dear Boss" letter. A torso of an unidentified woman was discovered during the construction of its buildings. This organization replaced the Bow Street Runners, and its members were assigned (*) whistles in 1884. It is sometimes nicknamed the "bobbies" for a man who lay out nine ethical principles for it, Robert Peel. For 10 points, name this organization that failed to apprehend Jack the Ripper, a force headquartered at Scotland Yard in the UK's capital.

ANSWER: <u>Metropolitan Police</u> Service (accept <u>London Police</u> force or equivalents, accept <u>Scotland Yard</u> or <u>bobbies</u> until mentioned; prompt on less specific answers)

- 10. This man painted billowing steam settling over a pair of locomotives in his depiction of Gare Saint-Lazare. A depiction of this painter's wife shows her sewing in front of a wall of red flowers next to a small child wearing a blue dress sitting on the ground. A painting by this man set in the same location depicts her holding a blue umbrella and walking through a poppy field in Argenteuil. This man painted some images of (*) haystacks at his home in Giverny, which also inspired paintings of flowers resting on the surface of ponds. For 10 points, name this French painter of *Impression: Sunrise*, which gives its name to the Impressionist movement. ANSWER: Claude **Monet**
- 11. This author responded to a critique by Irving Howe in his essay "The World and the Jug." In one of this author's novels, the Reverend Alonzo Hickman raises a boy named Bliss, who grows up to become a racebaiting senator named Adam Sunraider. That novel by him was republished in 2010 under the title (*) *Three Days Before the Shooting...*. The protagonist of one of this man's novels is expelled from college by Dr. Bledsoe

before taking up a job at Liberty Paints. That novel by this author features the protagonist's association with the Brotherhood, which is opposed by Ras the Exhorter. For 10 points, name this author of *Juneteenth* and *Invisible Man*.

ANSWER: Ralph Ellison

12. The chemical formula for spinel consists of four oxygens, two aluminums, and one of this element. The anhydrous sulfate of this element is used as a drying agent, but when hydrated, is called Epsom salt. This element can insert itself into a carbon-bromine bond to form a (*) Grignard reagent. The hydroxide of this element, due to its white appearance, is called the "milk" of this element. The most common porphyrin ring that coordinates its cation is chlorophyll. For 10 points, name this second member of the alkaline earth metals, with atomic number 12 and symbol Mg.

ANSWER: magnesium

13. While working with John Cage, this artist produced his Sculpture Musicale. Marsden Hartley's The Warriors appears in the background of an iconic image of this artist's work. He included a waterwheel and a group of clothes hanging on wires in a work with the parenthetical title The Large Glass. This man added a moustache and a goatee to a famous (*) da Vinci portrait in his L.H.O.O.Q. One of this artist's works was derided as "an explosion in a shingle factory" after its debut at the Armory Show in 1913. This man signed a urinal with the name "R. Mutt" in his Fountain. For 10 points, name this prominent Dada chess player and artist of Nude Descending A Staircase who also produced readymades.

ANSWER: Marcel **Duchamp**

- 14. In New Super Mario Bros. U, a magenta-colored Yoshi has the properties of this kind of item. A game centered around these items for the NES featured pink and green birds wearing goggles as the enemies. In the Legend of Zelda series of games, the weird elf-man Tingle often uses one of these items for transportation.

 These items are used to measure health in the (*) "battle mode" of the Mario Kart games, and players often start with three of them. In the Animal Crossing games, these items often carry pieces of furniture, and they can be shot down using a slingshot. For 10 points, name this kind of inflatable item often found at parties.

 ANSWER: balloons
- 15. This campaign is represented as a brown line in a pioneering infographic by Charles Joseph Minard. This campaign occurred after the Congress of Erfurt, and Peter Bagration died during one of its battles. It violated a treaty signed in a raft on the Neman river, the Treaty of Tilsit. This campaign ended after its leader rushed home to stop a coup, leaving (*) Joachim Murat in command. Retreating forces burned their own capital during this campaign, which saw the Battle of Borodino and numerous deaths by freezing. For 10 points, name this disastrous invasion conducted by a French emperor against a country led by czar Alexander I. ANSWER: Napoleon's invasion of Russia (prompt on partial answers)
- 16. In this story, a moth-like figure with a human voice flutters out of a black pocket book. One character in this story is first seen wrestling with a ram named Goliath and later gives another character "a kick that would stun a horse" after being told that his sons will die during a war. The central character of this story speaks in a voice "like a big bell" to a group including (*) Simon Girty and Blackbeard. This story is set in the town of Cross Corners, where a farmer is visited by Mr. Scratch after wishing to sell his soul for two cents. For 10 points, name this story in which Jabez Stone is saved from damnation by the titular statesman, a work of Stephen Vincent Benet.

ANSWER: "The Devil and Daniel Webster"

17. Descriptive answer acceptable. After this event, a note was found in a man's wallet that read "Surviving alone is too painful when 200 lives are unaccounted for... I take full responsibility." The USS Bonhomme Richard was dispatched to help the victims of this event. This event led a 52-year-old vice-principal to hang himself with a belt outside of a school gymnasium. This event led to the public shaming of Lee Jun-Sŏk, who was the first person to be (*) rescued during it. The vessel at the center of this event capsized less than two miles of the coast of Gwanmae Island in Jindo County. For 10 points, name this 2014 maritime disaster involving the sinking of a passenger vessel en route from Jeju to Inchŏn.

ANSWER: MV Sewöl sinking (accept more general things like recent South Korean ferry disaster, etc.)

18. Toomre identified swing amplification as a means by which a pattern in these objects may be amplified. Resonances in their epicycles drive the density waves in these objects, according to Lindblad. Lin and Shu modeled them as axisymmetric with small perturbations that turned into density waves in a model that explains a problem that arises from (*) differential rotation in these objects. That is the winding problem. These objects appear on the right of the Hubble tuning fork, with the ones with bars on the bottom. For 10 points, name these galaxies which have curved arms, unlike elliptical ones.

ANSWER: spiral galaxies (prompt on "galaxies")

19. This thinker claimed that the sovereign is the sole authority on religious matters in what he called the "Single Authority Thesis." This thinker discussed "conatus," usually translated as striving, in one work, and discussed how each being strives to continue its own existence. His most famous book claims that everything, even God, is one (*) substance, a controversial viewpoint which lead to his name being synonymous with atheistic. That book starts with axioms and definitions and is laid out "in geometrical order," and the Talmud Torah congregation of his native city excommunicated him. For 10 points, name this Dutch Philosopher who wrote *Tractatus Theologico-Politicus* and *Ethics*.

ANSWER: Baruch Spinoza

20. The SIN intelligence agency was established after one man with this surname was taken out of office. One man with this surname was opposed by broadcasts made by Radio Soleil. Cité Simone was named for the wife of a man with this surname. Luckner Cambronne led the (*) Tonton Macoute, which were founded by one man with this surname. A younger man with this surname was opposed by the priest Jean Bertrand Aristide and overthrown after demonstrations began in Gonaives and spread to Port-au-Prince. For 10 points, name this surname shared by one person named Baby Doc and another named Papa Doc, two presidents of Haiti.

ANSWER: Duvalier

Bonuses

- 1. These molecules are connected to another body by coilin. For 10 points each:
- [10] Identify these globular sub-organelles found in the nucleus of embryonic and tumor cells, and named for their Spanish discover.

ANSWER: Cajal bodies

[10] Cajal bodies generally attach to this structure, a body within the nucleus that transcribes rRNA and assembles ribosomes.

ANSWER: Nucleolus

[10] Cajal bodies play a role in the synthesis of snRNPs ("snirps") and thus are key in splicing these non-coding nucleotide sequences, which are generally bounded by GU and AG regions.

ANSWER: Introns

- 2. Nigel Kennedy's 1989 recording of this work is one of the best-selling classical recordings in history. For 10 points each:
- [10] Name this set of four violin concerti originally included in *The Contest Between Harmony and Invention* that depicts the different divisions of the year.

ANSWER: The Four Seasons (or Le quattro stagioni)

[10] This Italian composer, known as "The Red Priest" for his fiery red hair, composed *The Four Seasons*.

ANSWER: Antonio Vivaldi

[10] This other Italian composer of several *Sonata da chiesa* and *Concerti grossi* greatly influenced the work of Vivaldi and is perhaps best known for his *Christmas Concerto*.

ANSWER: Arcangelo Corelli

3. She wrote, "That fearfull sound of fire and fire / Let no man know is my Desire" in one poem. For 10 points each: [10] Name this colonial era woman who wrote "To My Dear and Loving Husband."

ANSWER: Anne **Bradstreet** (accept Anne **Dudley**)

[10] This poet wrote "the Governor your husband lived so long / Moved you not, restless, waiting for him" in his "Homage to Mistress Bradstreet." His best known collection features a figure called Henry with an unnamed, blackface-wearing friend.

ANSWER: James Berryman

[10] A book of poetry by Bradstreet is titled for *The Tenth* [one of these figures]. These personifications of art are often invoked at the beginning of epic poems.

ANSWER: muses

- 4. This figure ordered the trickster Anansi to capture a python, a leopard, a dwarf, and some hornets in exchange for stories. For 10 points each:
- [10] Name this West African sky god. The sun and moon are his eyes, and he created the first human being, Kamunu.

ANSWER: Nyame

[10] Anansi takes the form of one of these creatures. In Lakota myth, Iktomi was depicted as one of these. In a Japanese story, one of these creatures takes the form of a boy and traps Minamoto no Raiko in its web.

ANSWER: spiders

[10] In Greek mythology, this weaver boasted that she was more skilled than Athena and challenged her to a contest. After this figure hanged herself, Athena turned her into a spider.

ANSWER: Arachne

5. Dag Hammarskjold died in a plane crash en route to negotiations with this region's leader. For 10 points each:

[10] Name this region of the Congo that became a breakaway state under Moise Tshombe in 1960.

ANSWER: Katanga

[10] After the end of Katanga's independence, this man renamed the Democratic Republic of the Congo "Zaire," and proceeded to rule as a corrupt strongman for forty years.

ANSWER: Joseph-Desiré Mobutu (or Mobutu Sese Seko)

[10] One of Mobutu's last acts before his overthrow was the burial of Juvénal Habyarimana, a president of this country. A genocide of the Tutsi people occurred in this country.

ANSWER: Rwanda

6. Answer some questions about popular playing card games. For 10 points each:

[10] One of the most popular playing card games is the one based on this franchise, which features "Energy" cards. Characters in this franchise include Pidgeot, Blastoise, and Pikachu, and this franchise has also spawned some video games.

ANSWER: **Pokémon** or **Pocket Monsters**

[10] This other trading card game made by Konami features trap cards and also combos like Exodia. Power creep in this card game has gotten so bad that most decks can win within the first couple turns now.

ANSWER: Yu-Gi-Oh! Official Card Game

[10] This color of card in Magic: the Gathering is often used to draw cards or counter spells. Magic's website notes that this card color is the color of "intellect."

ANSWER: blue

7. In the last chapter of one of his novels, the skeleton of the title character turns to dust when it is pulled away from the skeleton of his beloved. For 10 points each:

[10] Name this author of *The Hunchback of Notre Dame*, as well as a novel about the convict Jean Valjean, *Les Miserables*.

ANSWER: Victor Hugo

[10] The antagonist of Les Miserables is this police inspector who encounters Jean after he has become a wealthy mayor and suspects his identity when he sees him lift a heavy cart.

ANSWER: Inspector Javert

[10] Hugo set his novel *Bug-Jarl* during the Haitian revolution, a setting shared by this Cuban author's *The Kingdom of this World*. This man also coined the term "magical realism."

ANSWER: Alejo **Carpentier** y Valmont

8. According to the octet rule, these elements are remarkably stable due to having full valence shells. For 10 points each:

[10] Identify this family of elements, which can be found all the way on the right hand side of the periodic table.

ANSWER: noble gases (accept, but do not reveal group eighteen)

[10] This is the number of the family that noble gases belong to. This number is also the amount of electrons that transition metals can support in their valence orbitals.

ANSWER: eighteen

[10] The first discovered compounds of noble gases were only with this element. Nickel that is exposed to the diatomic gas of this element forms a passivating layer, which is useful for transporting this element.

ANSWER: **fluorine** (accept **F**)

9. Rabbinic literature gives this man the epitaph "May his bones be crushed" for his suppression of the Bar Kokhba revolt. For 10 points each:

[10] Name this Roman emperor who succeeded Trajan and erected a namesake wall in northern England.

ANSWER: Hadrian

[10] Hadrian was one of the five emperors known by this adjective for their apparently benevolent dictatorships.

ANSWER: Five **Good** Emperors

[10] Hadrian was so distraught by the death of his lover Antinous that he gave him this status. Vespasian's last words apparently referred to this status.

ANSWER: being or becoming a **god** (accept **deifi**cation or other obvious equivalents)

10. The author is taking a class on the "history of mobility," so let's ask questions about it. For 10 points each:

 $[10] \ The \ building \ of \ these \ systems \ in \ cities \ of ten \ led \ to \ names ake \ "revolts" \ in \ cities \ like \ Baltimore \ and \ San$

Francisco. Successful revolts led to abandoned versions of these things that connect to nothing in major cities.

ANSWER: <u>freeway</u>s or <u>highway</u>s or <u>expressway</u>s (prompt on "roads")

[10] In Japan, the Shinkansen is a high speed rail system whose trains are colloquially known by this nickname.

ANSWER: bullet trains

[10] At the turn of the 20th century, this form of transportation was mostly used by the rich in namesake "clubs." Versions of this form of transportation included the penny farthing, which had an enormous front wheel.

ANSWER: bicycles

11. Early in his life, this man painted landscapes like *View from the Dunes with Beach and Piers*, but he later shifted to a radically different style. For 10 points each:

[10] Name this Dutch artist of several Compositions and Broadway Boogie-Woogie.

ANSWER: Piet Mondrian

[10] Mondrian argued with fellow artist Theo van Doesburg over the inclusion of *these* things in his art. Mondrian would instead turn his paintings forty-five degrees, as seen in his "Lozenge" paintings.

ANSWER: diagonal lines

[10] Mondrian was a leading member of *De Stijl*, an artistic movement that included Gerrit Rietveld, a man of this profession who designed the Schroder House.

ANSWER: architects

12. The direct product can combine two of these into a larger one, because they are modules over a field. For 10 points each:

[10] Name these spaces in which elements can be added together and multiplied by scalars according to 8 axioms.

ANSWER: vector space

[10] Vector spaces may be endowed with this operation that maps two vectors to a scalar. This operation divided by the norms of the vectors gives the cosine of the angle between them.

ANSWER: inner product (accept dot product)

[10] Normed vector spaces are ones that have this measure between two points. In Euclidean space, it is the square root of the sum of the square of the difference in each coordinate.

ANSWER: distance (accept length)

13. After learning of this figure's death, one character cries "come to my arms, my beamish boy!" For 10 points each:

[10] Name this monster that is slain when the "vorpal sword [goes] snicker-snack." It titles a poem that begins by describing the activities of "slithy toves."

ANSWER: "Jabberwocky"

[10] The Jabberwocky is a creation of this British author who included a lot of other nonsense in novels such as *Alice in Wonderland*.

ANSWER: Lewis **Carroll** (or Charles Lutwidge **Dodgson**)

[10] Carroll also wrote "An Agony in 8 Fits" describing the "Hunting of" this other fictional creature. The poem concludes that this animal "was a Boojum, you see."

ANSWER: "Hunting of the **Snark**"

- 14. This city's Dongan charter is the oldest in the United States. For 10 points each:
- [10] Name this city where, in 1754, seven of the colonies met to discuss unity against the French. The "Join, or Die" cartoon was created for that "Congress" here.

ANSWER: Albany

[10] This founding father created the "Join, or Die" image. He also invented the bifocals and ascertained the electric nature of lightning by flying a kite in a storm.

ANSWER: Benjamin Franklin

[10] Franklin's son Thomas was the last loyalist governor of this state, where he may have ordered the execution of patriot Joshua Huddy and sparked the Asgill affair.

ANSWER: New Jersey

15. Answer the following about prayer in Islam. For 10 points each:

[10] This pillar of Islam mandates that a Muslim pray five times a day in the direction of Mecca.

ANSWER: salat

[10] This term denotes the direction that a Muslim must pray during *salat*. In mosques, this direction is marked by the *mihrab*, a semicircular alcove in the wall.

ANSWER: qibla

[10] While performing *salat*, Muslims face in the direction of this specific mosque in Saudi Arabia, which surrounds the Kaaba.

ANSWER: Al-Masjid Al-Haram (or The Grand Mosque or The Sacred Mosque)

- 16. This character works as a detective in a film where he attempts to woo Christine Darbon, *Stolen Kisses*. For 10 points each:
- [10] Name this character who is arrested after stealing a typewriter in another film, the protagonist of *The 400 Blows*.

ANSWER: **Antoine Doinel** (accept either)

[10] The director of *The 400 Blows*, François Truffaut, is a member of a New Wave film movement in this country. Marcel Carné, the director of *Children of Paradise*, is also from this country.

ANSWER: France

[10] François Truffaut created a 1960 film titled "Shoot" a person with *this profession*. Adrian Brody played a person with *this profession* named Władysław Szpilman in a 2002 Roman Polanski film set during WWII.

ANSWER: a pianist (or piano player; prompt on "musician" or similar)

- 17. The narrator of one of this author's poems states "sinking in this sea is sweet to me" after claiming "I feel the eternal." For 10 points each:
- [10] Name this 19th century Italian poet of "The Infinite" who asked nature "Why do you beguile your children?" in "To Silvia."

ANSWER: Giacomo Leopardi

[10] Leopardi was a big fan of this Italian humanist who claimed he was the first person since antiquity to climb a mountain for the view and wrote a bunch of poems to Laura.

ANSWER: Petrarch (or Francesco Petrarca)

[10] Leopardi wrote a dramatic poem about this man who, in another author's play, is told "thou shalt see me at Philippi" by the ghost of a man he murdered with Cassius.

ANSWER: **Brutus** (accept **Bruto** minore)

- 18. The rate of this process is equal to its namesake coefficient times the gradient of concentration according to Fick's first law. For 10 points each:
- [10] Name this process in which particles spread out from areas of high concentration to low concentration.

ANSWER: diffusion

[10] The Fokker–Planck equation describes diffusion with this kind of differential equation. This type of random process is a set of random variables indexed by time. Markov chains are types of them.

ANSWER: stochastic equations or models or processes

[10] A third diffusion equation is due to Einstein and Smoluchowski. Their equation says the diffusion coefficient is equal to temperature times particle mobility times this constant, which appears in the equation for entropy and is the gas constant over Avogadro's number.

ANSWER: Boltzmann's constant

- 19. The Ice Harbor Dam forms Lake Sacajawea from this river in Walla Walla County, Washington. For 10 points each:
- [10] Name this river of the Pacific Northwest, the largest tributary of the Columbia River.

ANSWER: Snake River

[10] The eastern terminus of the Snake River lies near Jackson Hole in this state. This least populous state in the United States has capital at Cheyenne.

ANSWER: Wyoming

[10] Jackson Hole lies east of this mountain range, which includes Mount Owen in its "Cathedral Group."

ANSWER: Teton Range

- 20. This leader replaced Thomas Callaghan following the "Winter of Discontent." For 10 points each:
- [10] Name this "iron lady," a conservative prime minister of United Kingdom during the 1980s.

ANSWER: Margaret Thatcher

[10] While serving as Secretary of State for Education, Thatcher earned this nickname for abolishing a policy that gave a certain item to schoolchildren for free.

ANSWER: "Margaret Thatcher, Milk Snatcher"

[10] This paramilitary organization tried to assassinate Thatcher in the Brighton Hotel bombing. During her term, a member of this group, Bobby Sands, died from a hunger strike in Maze Prison.

ANSWER: Provisional Irish Republican Army