

Minnesota Undergraduate Tournament 2013

Questions by Rob Carson, Mike Cheyne, Andrew Hart, Gaurav Kandlikar, Matt Menard, and Bernadette Spencer

Round 7: Nobody Cares This Side of Lusaka

Tossups

1. **This novel's climax, which is briefly interrupted by a letter about the "duck people", sees its protagonist beat a shadowy figure to death with a baseball bat in room 208. Its protagonist is assisted by the mute Cinnamon and his mother Nutmeg, who notices a blue-black mark on the protagonist's cheek. Boris the Manskiner appears in some flashback sections of this novel, which detail the Nomonhan incident and are narrated by Lieutenant (*) Mamiya. Its protagonist receives many letters from May Kasahara, who first shows him the dried-up well. Characters in this novel regularly whistle the overture to *The Thieving Magpie*. Its plot is set in motion by a search for the missing cat Noboru Wataya, and soon thereafter the protagonist's wife Kumiko disappears as well. For 10 points, name this 1995 novel about Toru Okada, a work of Haruki Murakami.**

ANSWER: *The Wind-Up Bird Chronicle* [or *Nejimaki-dori Kuronikuru*]

2. **In the wake of this event, Dr. Willard Bliss demanded \$25,000 from Congress for his efforts. A policeman named Patrick Kearney prevented a lynching from occurring immediately after it. One participant in this event had printed hundreds of copies of a speech denouncing Winfield Scott Hancock and had written a letter demanding the firing of Secretary of State James Blaine. Alexander Graham Bell devised a (*) metal detector to treat the victim of this event. It was responsible for spurring the passage of the Pendleton Act. The man who carried out this action reportedly shouted "I am a Stalwart!" and mentioned Chester Arthur's name. For 10 points, name this 1881 event in which an American president was gunned down by disappointed office-seeker Charles Guiteau.**

ANSWER: assassination of James Abram Garfield [accept equivalents for "assassination"]

3. **In an open letter, this thinker attempted to shift the focus of liberal politics from the proletariat to the young intellectual. This erstwhile worker at the Bureau of Applied Social Research critiqued the abstracted empiricism of his former boss Paul Lazarsfeld and the reliance on "grand theories" of Talcott Parsons and his followers in a work that claims that the function of sociology is to find the connections between individuals and social forces. This author of the "Letter to the New Left" and *The (*) Sociological Imagination* posited a "salesmanship mentality" in a study of middle managers and the American middle class. He wrote another work about military, corporate, and political leaders. For 10 points, name this American sociologist who wrote *White Collar* and *The Power Elite*.**

ANSWER: Charles Wright Mills

4. **In one story, this figure explains another character's ravenous appetite and burning eyes by claiming that that character hadn't slept or eaten for eight days. In one appearance, he snaps at the servant Eldir and kills the servant Fimafeng. The cord Vartari was used to sew this god's mouth shut after he lost a bet involving the sons of Ivaldi. One of his sons was turned into a wolf which then disemboweled his son Narfi, whose entrails were used to (*) bind him in a cave where his wife Sigyn protects him from dripping poison. He lost an eating contest to a similarly-named personification of fire while traveling with Thor and disguised himself as the giantess Thokk to interfere with the revival of Baldr, whose death he'd engineered. His children with the jotunn Angrboda include Hel, Fenrir, and Jormungandr. For 10 points, identify this colossal jerk, the Norse trickster god.**

ANSWER: Loki Laufeyarson [or Lopttr]

5. A generalization of this statement to arbitrary operators gives an inequality featuring one half the magnitude of the expectation of the commutator of those two operators. That generalization of this statement is named for Robertson and is a special case of a statement named for Schroedinger. Thought experiments such as a box lined with mirrors from which one photon is allowed to escape were used in a series of debates between Bohr and Einstein over this principle. One of these exists for any pair of noncommuting (*) observables, while considering the evolution of an arbitrary operator allows one to find one of these for energy and time. For 10 points, name this principle of quantum mechanics which in its original formulation states that you cannot precisely know a particle's position and momentum at any given time.

ANSWER: Heisenberg uncertainty principle

6. A partially-hidden railway bridge is visible behind some bushes in the distant background of this painting, which was controversially "restored" in 1954 by Sheldon and Caroline Keck. In its upper right, a man in a yellow hat puts his arm around a woman who holds her gloved hands to her face. The striped awning was a late addition to this painting, the center of which features a contemplative-looking woman drinking from a glass. The two (*) straw-hat-wearing figures leaning against the diagonal railing in this painting are the children of its location's owner, while the woman in the bottom left playing with a dog is its artist's future wife Aline Charigot, and the man sitting backwards in a chair is Gustave Caillebotte. For 10 points, identify this painting set at the Maison Fournaise, a depiction of a meal by Pierre-Auguste Renoir.

ANSWER: *The Luncheon of the Boating Party* [or *Le Déjeuner des Canotiers*]

7. He collaborated with his stepson Lloyd Osbourne on the novels *The Ebb-Tide*, *The Wrecker*, and *The Wrong Box*, and he adopted the name "Tulsitala" after moving to Samoa. One of this man's characters learns etiquette from Barbara Grant and is imprisoned on Bass Rock before traveling to Leyden. Hastie Lanyon dies of shock and Sir Danvers Carew is bludgeoned to death in one of his novels, whose title (*) characters are investigated by Gabriel John Utterson. In another of his novels, the protagonist gets involved in the Appin Murder case after being sold to Captain Hoseason by his uncle Ebenezer. A third novel by this man features such characters as Captain Smollett, Billy Bones, and Long John Silver. For 10 points, name this Scottish creator of David Balfour who wrote *Kidnapped*, *The Strange Case of Dr. Jekyll and Mr. Hyde* and *Treasure Island*.

ANSWER: Robert Louis Balfour Stevenson

8. This compound can be synthesized by passing the products of reacting sulfuric acid with oxalic acid through potassium hydroxide. Impure nickel is reacted with an excess of this compound in the second and third steps of the Mond process. Aromatic aldehydes are synthesized by reacting the aromatic compound with hydrochloric acid and this compound in the Gatterman-Koch reaction. The binding of this molecule to (*) hemoglobin drastically increases the protein's affinity for oxygen, as a result of which insufficient oxygen is deposited at tissues. Along with nitrogen derivatives, this compound is reduced by catalytic converters. For 10 points, name this compound in which a carbon atom is triple bonded to an oxygen atom, with formula CO.

ANSWER: carbon monoxide [accept CO until mentioned]

9. The divinity of an honor afforded this man's descendants was confirmed when the earth opened up and swallowed his cousin Korah and other rebellious men. This man's eldest and second-eldest sons, Nadab and Abihu, failed to wait for holy fire and instead lit incense, for which they were burned alive with holy fire. In conflicting Biblical accounts, this man either died at Mosera or after ascending (*) Mount Hor. This man, whose descendants were known as Kohens, carried a rod that miraculously flowered. This first High Priest of the Israelites was the eldest brother of Miriam. For 10 points, name this constructor of the Golden Calf, the older brother of Moses.

ANSWER: Aaron [or Aharon; or Harun; or Aaron the Priest; or Aaron the Levite]

10. This man announced his retirement after announcing he was “taking a walk in the snow.” After being accused of saying “fuck,” he used the term “fuddle duddle” in an exchange with reporters. During a Saint-Jean-Baptiste Day parade, this man defiantly remained seated when protesters began throwing rocks. As Justice Minister, he said “there’s no place for the state in the (*) bedrooms of the nation” in defending decriminalizing homosexuality. This man’s lengthy tenure as Prime Minister was interrupted by the ministry of Joe Clark. During his ministry, he invoked the War Measures Act after Pierre Laporte was kidnapped by the FLQ, a nationalist group from Quebec. For 10 points, name this charismatic Prime Minister of Canada, who in 1970 endured the October Crisis.

ANSWER: (Joseph Philippe) Pierre Yves Elliott Trudeau

11. In one opera by this composer, a character overhears the title character’s plot to kill him while he is near the tomb of Charlemagne to be crowned the next Holy Roman Emperor. In one of this composer’s operas, Abigaille tells Ismaele that her father, the title character of the opera, will forgive Ismaele if he does not protect Fenena. The title character of that opera by this composer is a (*) Babylonian king. In another of his operas, Alfredo sings a drinking song at Violetta Valéry’s house. One opera by this composer of *Ernani* and *Nabucco* features a princess’ unrequited love for Radames, who wins a battle in Ethiopia, which is the home country of the title character, who is a captive in Egypt. For 10 points, name this composer of *La Traviata* and *Aida*.

ANSWER: Giuseppe Fortunino Francesco Verdi

12. These structures are present in the non-stalked cells in the *Caulobacter* life cycle. Chytrids are the only members of their kingdom to possess these structures, and in bacteria, these structures are highly homologous to proteins in the Type III secretion system. The organization of these structures is the basis of classifying bacteria into group such as “lophotrichous,” and these structures have (*) M/S and L/P ring complexes. Some bacteria that lack these structures use Type IV pili to achieve their main function. During chemotaxis, variable motion of these structures leads to biased random walks. These structures are divided into the basal body, hook, and rod regions, and in eukarya, these structures’ axonemes have microtubules in a “9+2” arrangement. For 10 points, name these structures that aid in cellular motion and are longer than cilia.

ANSWER: flagella [or flagellum]

13. This man sued lawyer Ismail Ayob to prevent him from selling prints signed by this leader. He warned that “no one nation should be complainant, prosecutor, and judge” when offering his country as the site of the trial of the Pan Am Flight 103 bombers. Former censor officer James Gregory wrote the possibly fraudulent biography *Goodbye Bafana* about this man, whose own memoir is titled *Long (*) Walk to Freedom*. This man famously presented a trophy to athlete Francois Pienaar and was succeeded by Thabo Mbeki. He spent many years in prison at Robben Island after being arrested while leading the Spear of the Nation wing of the African National Congress. For 10 points, name this man who shared a Nobel Peace Prize with F.W. de Klerk, the first black President of South Africa.

ANSWER: Nelson Rolihlahla Mandela [accept Madiba]

14. This author’s ostensible relationship with a “Madam Tschissik” and belief in the golem are related by Jacques Kohn in an Isaac Bashevis Singer story about a “Friend of” this author. An engagement to Frieda Brandenkopf is broken when a letter which ends “I sentence you now to death by drowning!” causes Georg Bendemann to jump off a bridge in this author’s story “The Judgement”. The maid Rosa is bitten by a boorish groom in another of his stories, whose protagonist is transported to the house of a mysteriously-wounded (*) patient. In another story, this author used the phrase “ungeheures Ungeziefer” to refer to a traveling salesman who experiences a night of uneasy dreams. This author of “A Country Doctor” also wrote the story “In the Penal Colony”. For 10 points, identify this Prague-born author who wrote of Gregor Samsa waking up as an insect in “The Metamorphosis”.

ANSWER: Franz Kafka

15. The eighteenth entry in one of this composer's works inverts the theme upon which it was based and departs from the home key of A major to D-flat major. This man wrote a choral symphony that quotes the *Dies Irae* and is based on a text translated by Konstantin Balmont. This composer's five *Morceaux de fantaisie* contains a piano work sometimes dubbed the "Bells of Moscow," his (*) *Prelude in C-sharp minor*. Another piece by this composer contains 24 variations based on the 24th *Caprice* of an Italian violin virtuoso. For 10 points, name this Russian composer of the short choral symphony *The Bells* and the *Rhapsody on a Theme of Paganini*.

ANSWER: Sergei Vasilievich Rachmaninoff

16. In one fictional setting, the creation of one of these items called "The Spirit of Compromise" leads, ironically, to a fistfight. In that same fictional setting, one of them prompts the realization that "we should take *pride* in our mediocrity!" while another is dubbed "The Torment of Existence Weighed against the Horror of Nonbeing" and a third is used to inaugurate an art movement called "neo-regionalism". In another story in that setting, one of these things is brought to life and ends up creating an army of (*) "deranged mutant killer monster" versions of them. In a Jimmy Durante- narrated Rankin-Bass TV special, Professor Hinkle's hat brings one of them to life; that one is later taken to the North Pole by Santa. For 10 points, identify these wintery items which are regularly created by Calvin and Hobbes, other examples of which include the corncob pipe-carrying Frosty.

ANSWER: snowmen [or snow goons; or snowpeople; or snow sculptures, or other obvious equivalents]

17. Performance and scalability of these things can be improved using denormalizations like materialized views. These things can have a property named for Boyce and Codd which is an intermediate between the third and fourth normal forms for these things. Atomicity, consistency, isolation and durability are the ACID properties that must be guaranteed for (*) transactions in these things. An inner join of two elements of these things is equivalent to a cross join followed by a select. JOIN, SELECT, and INSERT are examples of operations for manipulating the records in the tables in the relational type of these objects. For 10 points, name these objects managed by systems like MySQL and Oracle which are computerized collections of information.

ANSWER: (relational) database [anti-prompt on tables until mentioned]

18. One man to hold this post resigned after creating an open space called Aequimaelium and ordering the death of a man who bought up wheat during a famine. This was the original position responsible for appointing a lieutenant named the Master of the Horse. While serving in this post, one man was given the epithet "Cunctator," mocking his delaying tactics. Another man was informed he had been named to this position while he was (*) plowing his farm, which he returned to once he had finished serving. This position was formally abolished by the Lex Antonia and it was given to Cincinnatus in 439 BC. Julius Caesar was voted into this position "in perpetuity." For 10 points, name this position with absolute authority which existed in times of crisis in the Roman Republic.

ANSWER: dictator [accept anything with the word dictator in it, accept Master of the Horse until mentioned]

19. The second volume of this book criticizes Euclid's methods for relying on abstract concepts instead of visible evidence. This book accuses Kant of a *petitio principii* for not adequately demonstrating the existence of moral laws. This book asserts that Platonic Ideals are the only knowable case of subject and object being combined in a section that advocates "aesthetic contemplation" as a way to redirect unfulfilled longing. This book builds upon its author's graduate thesis "On the (*) Fourfold Root of the Principle of Sufficient Reason". This work argues that saintly compassion through denying the will to live is the only viable moral principle in a section heavily inspired by the Upanishads. For 10 points, name this pessimistic work of philosophy that argues our experiences consists of the two title concepts, written by Arthur Schopenhauer.

ANSWER: *The World as Will and Representation* [or *Die Welt als Wille und Vorstellung*; accept Idea and Presentation for "Representation"]

20. This author used the name “Virgil” to refer to Henry Wadsworth Longfellow Dana, his guide to Moscow, in his travelogue *EIMI*. He called Death “rich beyond wishing / if this thou catch” in a poem that opens “Thy fingers make early flowers of all things”. Another of his poems ends by noting “it’s always ourselves we find in the sea” after describing the title girls’ trip to the beach. This author of “Maggie and Milly and Molly and May” revealed “the deepest secret nobody knows” in his poem “I (*) carry your heart with me”. He also wrote a poem which repeats lines like “sun moon stars rain” and “with up so floating many bells down” and penned a novel describing the four months he spent in a French prison during World War I. For 10 points, identify this author of “anyone lived in a pretty how town” and *The Enormous Room*, an American poet noted for his unusual orthography.

ANSWER: edward estlin cummings

21. This novel’s narrator decides to visit its title character after seeing the title character’s daughter’s photograph in a studio. The title character’s family is scammed by Peter Krajiek in this novel, while another character in this work injures her leg while prospecting in Alaska and ends up settling down in San Francisco. When he decides to follow Gaston Cleric to Harvard, this novel’s narrator breaks up with his dressmaker girlfriend, (*) Lena Lingard. One character commits suicide immediately after Christmas in this work, and that character’s burial spot ends up being right next to a highway by this novel’s end. This novel’s title character marries Anton Cuzak. For 10 points, name this novel in which Jim Burden relates his experiences with the title member of the Shimerda family, a work by Willa Cather.

ANSWER: My Ántonia

Bonuses

1. Identify some German artists, none of whom, unfortunately, is master sculptor Tilman Riemenschneider, for 10 points each.

[10] This man's paintings include a noted Christ-like self-portrait in a fur collar, while his better-known engravings include *Knight, Death, and the Devil*, the *Apocalypsis cum Figuris* series, and *Melencolia I*.

ANSWER: Albrecht Dürer

[10] This Romantic painter was widely criticized for setting a crucifixion scene in a landscape in his altarpiece *Cross in the Mountains*. The Zirkelstein and the Kaiserkrone appear in his *Wanderer Above a Sea of Fog*.

ANSWER: Caspar David Friedrich

[10] His 1520 *Landscape with Footbridge* is considered to be one of the first pure landscapes in Western painting, though he's now probably more famous for his grandiose, chaotic *Battle of Alexander at Issus*.

ANSWER: Albrecht Altdorfer

2. Name some things related to the work of Fredric Jameson, for 10 points each.

[10] Much of Jameson's work is part of the school of thought inspired by this philosopher, who wrote *The Communist Manifesto* and *Das Kapital* with Friedrich Engels.

ANSWER: Karl Marx [or Karl Heindrich Marx]

[10] Jameson's most famous work is titled after this cultural phenomenon often associated with Jacques Derrida, deconstruction, and poststructuralism. Jean-Francois Lyotard wrote a book that examines the "condition" of this era of thought.

ANSWER: postmodernism

[10] In *Postmodernism*, Jameson critiques capitalism's continued influence on this area of society. A section of the *Dialectic of Enlightenment* examines the "mass deception" that has resulted from the mass-produced products of this area of society.

ANSWER: culture industry

3. Prove that you too know drama by identifying the following shows that can be found on TNT, for 10 points each.

[10] Eric McCormack and Rachael Leigh Cook star as a neuropsychiatrist and an FBI agent, respectively, in this show, which is easily the best show ever to feature LeVar Burton as a theology professor.

ANSWER: Perception

[10] The Malcolm McDowell-portrayed Stanton Infeld was responsible for hiring this show's title pair of "streetwise" lawyers, who are played by Breckin Meyer and Mark-Paul Gossehaar.

ANSWER: Franklin & Bash [admire my restraint in not writing on Rizzoli & Isles]

[10] As it has since the beginning of time, TNT still airs syndicated reruns of this long-running Dick Wolf-created procedural. Some more-enjoyable spinoffs of this show are subtitled "Special Victims Unit" and "Criminal Intent".

ANSWER: Law & Order

4. The ratio of these types of compounds in a solution determines whether or not light experiences net polarization when it passes through that solution. For 10 points each:

[10] Enantiomerism and diastereomerism are classes of what type of property? Compounds of this type have identical molecular formulas but differ in structural composition.

ANSWER: isomers [word forms OK]

[10] The existence of an enantiomer for any given compound is determined by whether or not the compound has this type of center. Asymmetric carbons confer this property onto compounds.

ANSWER: chirality

[10] The cis/trans notation of double bond stereochemistry is extended by the use of these two letters, which are used according to the Cahn-Ingold-Prelog rules. They represent the German words for together and opposite.

ANSWER: E and Z [needs both; order doesn't matter; accept entgegen and zusammen]

5. This holiday is celebrated with a vigil that includes the singing of a namesake troparion hymn also known as “Christos Anesti.” For 10 points each:

[10] Name this holiday that celebrates the resurrection of Christ on the third day after his crucifixion.

ANSWER: **Easter** [or the **Pasch**; or **Pashca**]

[10] Easter is the most important festival in this Catholic religion whose largest constituent church is in Russia.

ANSWER: Eastern **Orthodox** Church [or **Orthodox** Catholic Church]

[10] This short and simple Eastern Orthodox prayer, which entreats its title figure to “have mercy on me, the sinner,” is an important aspect of Hesychasm, the inward retreat to prayer.

ANSWER: **Jesus Prayer** [or i **prosefchí tou iisoú**; or i **efchi**; prompt on The **Prayer**]

6. Their structure can be studied using X-ray diffraction. For 10 points each:

[10] Give the name for a solid whose molecules are arranged periodically. Examples include quartz and diamond.

ANSWER: **crystals**

[10] In 1957, this physicist discovered that gamma rays can be emitted and absorbed by nuclei in a crystal lattice with almost no energy lost to recoil, an effect exploited to measure very small energy shifts in his namesake type of spectroscopy.

ANSWER: Rudolf **Mossbauer** [accept **Mossbauer** effect or **Mossbauer** spectroscopy]

[10] The Pound-Rebka experiment used Mossbauer spectroscopy to test this prediction of general relativity, which states that gravitational fields change the frequency of light moving through them, or equivalently that clocks run at different speeds at different points in a gravitational field.

ANSWER: **gravitational redshift** or **gravitational time dilation**

7. This sculptor created allegorical figures of *Night*, *Day*, *Dusk*, and *Dawn* for the sides of the Medici Chapel, which he designed. For 10 points each:

[10] Identify this Renaissance painter and sculptor, whose statues for a planned tomb for Pope Julius II include a horned *Moses* and one in which a partially-carved monkey crawls up the leg of the title *Dying Slave*.

ANSWER: **Michelangelo** di Lodovico **Buonarroti** Simoni [accept either underlined portion]

[10] Michelangelo’s best-known statues include his famous marble *David* and this one, commissioned by Jean de Billheres. It depicts Mary cradling the body of Jesus on her lap, a theme Michelangelo would later return to.

ANSWER: the **Pieta**

[10] Michelangelo also designed this Mannerist building in the Basilica di San Lorenzo. Its notable features include its decorative Tuscan columns and a cascading triple staircase leading to its reading room.

ANSWER: the **Laurentian Library** [or the **Biblioteca** Medicea **Laurenziana**]

8. This man was buried overlooking the Ganges River after dying while serving as the Governor-General of India. For 10 points each:

[10] Name this officer who, along with Banastre Tarleton, routed Horatio Gates at the Battle of Camden. He surrendered in another battle after a navy meant to relieve him was defeated at the Battle of the Chesapeake.

ANSWER: Charles **Cornwallis** [or Viscount **Brome**]

[10] Cornwallis surrendered after this October 1781 battle against George Washington’s troops and the French, the last major land battle of the American Revolution.

ANSWER: Battle of **Yorktown**

[10] Cornwallis won a bloody battle in this North Carolina engagement fought on March 15, 1781. His army lost about a quarter of its men when fighting Nathanael Greene’s troops. Many British soldiers were killed by friendly fire in this battle.

ANSWER: Battle of **Guilford Court House**

9. This novel's protagonist encounters a life-size rubber horse at the bottom of a swimming pool while at a party hosted by Claude Estee and plans to create a painting called *The Burning of Los Angeles*. For 10 points each:

[10] Identify this novel narrated by Tod Hackett, a portrait of Depression-era Hollywood. In its chaotic final chapter, Homer Simpson is set upon by a mob after angrily stomping on the child actor Adore Loomis.

ANSWER: *The Day of the Locust*

[10] *The Day of the Locust* was written by this author of *The Dream Life of Balso Snell* and *Miss Lonelyhearts*.

ANSWER: Nathanael West [or Nathan von Wallenstein Weinstein]

[10] While in New York, West befriended this author of *The Dain Curse* and *Red Harvest*, which both feature his Continental Op. This man also wrote *The Thin Man* and *The Maltese Falcon*.

ANSWER: Dashiell Hammett [or Samuel Dashiell Hammett]

10. The third movement of this symphony is a funeral march based on "Frere Jacques." For 10 points each:

[10] Give the Jean Paul-inspired nickname of this symphony with an excised fifth movement based on "Blumine." It was composed in D major and was its composer's first symphony.

ANSWER: Titan symphony [prompt on "Mahler's first (symphony)" or equivalents]

[10] The *Titan* symphony was the first by this Romantic Austrian, who also composed the *Symphony of a Thousand*.

ANSWER: Gustav Mahler

[10] Mahler's five-movement second symphony earned this nickname, which came from a Klopstock poem that Mahler heard at Hans von Bulow's funeral.

ANSWER: Resurrection symphony [or *Die Auferstehung*]

11. Identify the following about Zeus's many, many, many, many, many consorts, for 10 points each.

[10] Zeus had to sew this god into his thigh after obliterating her mother Semele, who'd demanded that he reveal his full splendor to her. After his second birth, this deity became the god of madness and wine.

ANSWER: Dionysus

[10] Zeus sent Tros a bunch of high-quality horses in recompense for abducting this beautiful Trojan prince, whose relationship with Zeus provided a justification for pederasty among mortals.

ANSWER: Ganymedes

[10] In order to prevent her from giving birth to an incredibly powerful son, Zeus changed this still-pregnant Titaness into a fly and swallowed her. Her daughter Athena was later born from Zeus's forehead.

ANSWER: Metis

12. Name some things about noted pedologist Hans Jenny ["yenny"], for 10 points each:

[10] Jenny developed the "Clorpt" equation to describe the formation of this substance, which is the subject of pedology. This substance is divided into "horizons" and is a combination of sand, silt and clay.

ANSWER: soil [don't accept wrong answers like "dirt"]

[10] The "Cl" in "Clorpt" refers to this state factor, which is an aggregate summary of temperature, humidity and precipitation. The IPCC reports on the "change" in this factor.

ANSWER: climate

[10] Because they are very old, growth in tropical soils is limited by this nutrient. Herbicides like Roundup are categorized into a group whose name features this nutrient.

ANSWER: phosphorus [or phosphate; or Glyphosate]

13. This play's premiere went poorly due to scheming by the Duchess of Bouillon and others, who arranged for the hack Nicolas Pradon to write and stage a play on the same theme simultaneously. For 10 points each:
[10] Identify this Greek-myth-inspired 1677 play whose title character freaks out, falls into a trance, and declares her love for her stepson, who himself had recently declared his love for Aricia.

ANSWER: Phèdre

[10] Voltaire and Flaubert were among those who adored this play by the author of *Phèdre*, the latter of two Biblical works written for the convent of St. Cyr. It ends with its Baal-worshipping title character's execution by Joad.

ANSWER: Athalie

[10] *Phedre* and *Athalie* were written by this French tragedian, a master of alexandrine verse whose other works include *Bajazet* and *Andromaque*.

ANSWER: Jean Baptiste Racine

14. Two answers required. These two words name a historical "Annals" covering the history of the State of Lu, a text that is one of the Chinese Five Classics. For 10 points each:

[10] Name these two words, which also refer to a time period covering about the first half of the Eastern Zhou Dynasty in which smaller states began to disappear.

ANSWER: Spring and Autumn [need both, my inclination is not to accept "fall" for autumn]

[10] The *Spring and Autumn Annals* were traditionally ascribed to be written by this Chinese thinker whose teachings about ancestor worship and filial piety were compiled in the *Analects*.

ANSWER: Confucius

[10] This later Chinese historian during the Han Dynasty wrote *Records of the Grand Historian* chronicling more than two thousand years of Chinese history. He was eventually castrated after pissing off Emperor Han Wudi.

ANSWER: Sima Qian [or Ssu-ma Chien]

15. Name the following about the contributions of Merton Miller, for 10 points each.

[10] Miller developed a theory that these business associations, which arise to limit transaction costs according to a Ronald Coase book about the "nature" of them, have a value unaffected by their capital structure.

ANSWER: firms [accept *The Nature of the Firm*]

[10] Miller developed that theory alongside Franco Modigliani, who developed the life-cycle hypothesis of this economic behavior, defined as deferred consumption.

ANSWER: savings

[10] This student of Merton Miller, who criticized the capital asset pricing model with Kenneth French, proposed the strong, semi-strong, and weak forms of the efficient-market hypothesis in a 1970 paper.

ANSWER: Eugene [Francis] Fama [or Gene Fama]

16. This character is briefly overcome and chained in a dungeon by the giant Orgoglio, but he is saved from both the giant and his despair by Arthur. For 10 points each:

[10] Identify this character who also fights the Saracens Sansfoy, Sansjoy, and Sansloy and marries the virtuous Una. Later in the work, he is revealed to be Saint George, as the emblem on his shield would imply.

ANSWER: the Redcrosse Knight

[10] The Redcrosse Knight is the hero of the first book of this epic poem by Edmund Spenser, whose title character is a representation of Elizabeth I.

ANSWER: *The* Faerie Queene

[10] This evil sorcerer creates a dream-vision of a false Una in a failed attempt to tempt the Redcrosse Knight, then later works with Duessa in a failed attempt to disrupt Redcrosse and Una's wedding.

ANSWER: Archimago

17. One story about this monarch states that she gave five pounds for Irish relief on the same day that she gave the same amount to the Battersea Dogs Home. For 10 points each:

[10] Name this longest-reigning monarch in British history, who reigned from 1837 to 1901. She was married to her first cousin, Prince Albert.

ANSWER: Queen **Victoria**

[10] Victoria's eighth child, who died young from hemophilia, had this name. Another ruler with this name controlled the private Congo Free State, where his agents brutally oppressed the native population.

ANSWER: **Leopold** [number does not matter]

[10] This man was Prime Minister when Victoria died. The uncle of Arthur Balfour, this Conservative led Britain into the Second Boer War and replaced Disraeli as Conservative leader.

ANSWER: Robert Arthur Talbot Gascoyne-**Cecil**, 3rd Marquess of **Salisbury** [accept *either* underlined part, also accept Viscount **Cranborne**]

18. A compound which contains a cobalt atom at its center and is only absorbed in the presence of intrinsic factor is part of this group, whose other members include pantothenic acid. For 10 points each

[10] Name this group of vitamins, which includes Thiamine, whose deficiency causes Beriberi.

ANSWER: **B** vitamins

[10] Vitamin B7 is this compound, which is the carboxyl-carrying moiety in most carboxylases.

ANSWER: **biotin**

[10] Deficiency of folic acid during maternity increases the likelihood of this condition, which is characterized by an incomplete closure of the neural tube.

ANSWER: **spina bifida**

19. His first satirical novel is about a virtuous Army officer who is tasked with supplying prostitutes to soldiers stationed in Amazonas and is called *Captain Pantoja and the Special Service*. For 10 points each:

[10] Identify this Peruvian Nobel winner who wrote *The Green House* and *The War of the End of the World*.

Descriptions of radio serials written by Pedro Camacho are interspersed throughout his novel *Aunt Julia and the Scriptwriter*.

ANSWER: Mario **Vargas Llosa**

[10] This 1963 novel, Vargas Llosa's first, centers on the theft of a chemistry exam by a group of cadets at the Leoncio Prado Military Academy.

ANSWER: *The **Time of the Hero*** [or *La **Ciudad y los Perros***; or *The **City and the Dogs***]

[10] Vargas Llosa's latest novel, *The Dream of the Celt*, is a fictionalized biography of this Irish nationalist, whose ghost is said to be "beating on the door" in a W.B. Yeats poem. He supposedly catalogued his homosexual activities in the "Black Diaries" and definitely wrote about human rights abuses in Peru and the Congo.

ANSWER: Sir Roger **Casement**

20. This ruler's ideological principles were "Orthodoxy, Autocracy, and Nationality." For 10 points each:

[10] Name this autocratic Russian monarch. He died during the Crimean War shortly after the Siege of Sevastopol, and his successor took Russia out of the war, accepting unfavorable terms.

ANSWER: **Nicholas I** [prompt on **Nicholas**]

[10] Nicholas I revised the requirements for this list of positions in the military and court of Russia, which had been set up by Peter the Great. Holding higher offices on this list meant obtaining higher titles in the nobility.

ANSWER: **Table of Ranks**

[10] Russia's Nicholas II controversially employed this mystic known as the "Mad Monk" to heal his son. This man was eventually assassinated after being poisoned and shot.

ANSWER: Grigori Yefimovich **Rasputin**

21. This person apologized to Richard Jewell after the leak of an incorrect announcement that he was the Olympics bomber. For 10 points each:

[10] Name this Attorney General who presided over the Justice Department during such controversies as the Waco standoff that killed David Koresh and the seizure of Elian Gonzalez.

ANSWER: Janet Wood **Reno**

[10] Reno served under this president, who was impeached after he lied about his sexual relationship with intern Monica Lewinsky.

ANSWER: William Jefferson "Bill" **Clinton** [accept William Jefferson **Blythe** III]

[10] Reno was appointed as Attorney General after Clinton's first two choices, Zoe Baird and Kimba Wood, were tainted in a scandal involving people working in this type of occupation.

ANSWER: **nannies** [accept things like **babysitters**, **maids**, **domestic** workers, or the like]