

Minnesota Undergraduate Tournament 2013

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

Round 8: NO GUADO ALLOWED

Tossups

1. One work by this man claims that one's level of aesthetic appreciation is dependent on which of the four humors dominates. Another work by this man bemoans the rich who don't donate to charity in a section that claims that men swayed by external influences are in a state of ethical "heteronomy". In that work, this philosopher outlined four maxims that all morals must fulfill. This author of *On the (*) Beautiful and Sublime* used linguistically equivalent phrases to illustrate analytic propositions that are true in and of themselves. That book attempts to prove the existence of a priori synthetic propositions. For 10 points, name this German philosopher who wrote *Groundwork for the Metaphysics of Morals* and *Critique of Pure Reason* and formulated the categorical imperative.

ANSWER: Immanuel Kant

2. This order includes the commercially important species *Bombyx mori*, which largely feed on the genus *Morus*, which is part of the Moraceae family. Large numbers of individuals in this order were discovered by Catalina Trail and Kenny Brugger, who confirmed the theories developed by Fred Urquhart. Bernard (*) Kettlewell studied the impact of dark soot on members of this order in industrial England. The ontogeny of this order includes a chrysalis stage. One member of this order develops its toxicity by consuming milkweed leaves in a juvenile stage as a caterpillar. For 10 points, name this order that includes the Viceroy and Monarchs in addition to other moths and butterflies.

ANSWER: Lepidoptera

3. This work's third movement, in 12/8 time, is marked "Larga alla Siciliana," indicating it should be played like a Pifa dance. The public rehearsal of this work at the Vauxhall Gardens caused a major traffic disruption. This work, which opens with a French overture, alludes to the occasion of its commission with sections titled "Peace" and "Rejoicing", or "La Paix" and "La (*) Réjouissance". At its premiere, the collapse of a bas relief of George II caused a Servandoni-designed building to catch fire. This work was composed to commemorate the 1748 signing of the Treaty of Aix-La-Chapelle. For 10 points, name this wind band suite by George Frideric Handel meant to accompany a celebratory pyrotechnic display.

ANSWER: Music for the Royal Fireworks [accept anything mentioning Royal Fireworks]

4. One story claims that this god briefly blocked Parashurama's path to the Himalayas, resulting in Parashurama throwing his axe at him. The *Mudgala Purana* describes eight incarnations of this god, two of which have a huge protruding belly. A story in which he tied his burst-open belly with a snake is recalled by the eating of sweets called "modak" during the festival commemorating his birth, which also involves dumping lots of idols of him into the nearest body of water. He once (*) walked around his parents to craftily win a "race around the world" against his brother Skanda. His usual mount is a shrew or a mouse, he assisted Vyasa by transcribing the *Mahabharata*, and he is widely worshipped as the "remover of obstacles". For 10 points, identify this son of Parvati and Shiva, a Hindu god known for his elephant head.

ANSWER: Ganesh [or Vigneshvara; or Ganapati; or Vinayaka; or Pillaiyar; or like fifty other things]

5. This ruler employed light cavalry men known as the "hakkapeliitta," whose name refers to a war cry meaning "cut them down!" His artillery commander was taken captive during his failed siege at Alte Veste. This man died in the same battle that killed his opponent Marshal Pappenheim. Married to Maria Elonora of Brandenburg, this monarch had a daughter who would shockingly abdicate the throne. At the Battle of (*) Lech, also known as the "Battle of Rain," he commanded troops over the Count of Tilly. This ruler was succeeded as commander by his Lord High Chancellor Axel Oxenstierna. This Protestant monarch won the Battle of Breitenfeld before dying at the Battle of Lutzen. For 10 points, name this Swedish king, the "Lion of the North," who died during the Thirty Years War.

ANSWER: Gustavus Adolphus [or Gustav II Adolf]

6. The activity of hsp70 in these structures is the subject of the “thermal” and “cross bridge” ratchet models. These structures house another structure whose regions are separated by punctuating tRNA sequences and which are made up of a “light” and a “heavy” strand. The Oxa protein sits in this organelle’s membranes, and one enzyme in this structure binds ADP and switches between three conformations due to the movement of the (*) Fo (“F sub O”) subunit. A high concentration of protons is established in these organelles’ intermembrane space during the heterotrophic electron transport chain. Those protons eventually reenter these organelles’ matrix, which allows for the synthesis of ATP. For 10 points, name these organelles which are theorized to have once been free living prokaryotes, which are often dubbed cells’ “powerhouses.”

ANSWER: mitochondria

7. This thinker, who developed a law that was mathematically described by R.J. Herrnstein, wrote three “word books” to aid teachers in reading instruction. He developed a theory of learning based on the idea that behaviors reinforced with a “satisfying state of affairs” are likely to be repeated, while those that are followed by an “annoying state of affairs” will be discouraged. He conducted a series of experiments in which a hungry (*) animal was trapped in a container until it hit a lever, reported in his book *Animal Intelligence*. For 10 points, name this American psychologist who developed his law of effect after putting cats into puzzle boxes.

ANSWER: Edward Lee Thorndike [or Ted Thorndike]

8. An inn’s sign disappears behind some background shrubs and a man in the foreground manages to fish in a pond a large distance away in this man’s *Satire on False Perspective*. In his treatise *The Analysis of Beauty*, he developed his theory of the S-shaped “line of beauty”, a concept he applied in a dramatic painting of *David Garrick as Richard III*. Mug-carrying laborers rest and celebrate in one of his works, which he paired with a depiction of vice meant to contrast the relative merits of two (*) alcoholic beverages. This creator of *Beer Street and Gin Lane* depicted the vivisection of the animal-torturer Tom Nero in the last of his *Four Stages of Cruelty* and portrayed the downfalls of Tom Rakewell and Moll Hackabout in two other series. For 10 points, name this English printmaker who created *The Harlot’s Progress* and *The Rake’s Progress*.

ANSWER: William Hogarth [accept *Satire on False Perspective* until “this man” is read]

9. In one political cartoon, this man is being spanked by Columbia who calls him “a bad boy.” That cartoon was called “[This Man] Finding His Mother,” a reference to his claim that he was visiting his mother while going on a speaking tour throughout New England. At Galesburg, he proclaimed that the government “was made by our fathers on the white basis.” This politician endorsed the (*) Freeport Doctrine, which said that contrary to the *Dred Scott* decision, territories could effectively exclude slavery. Known as the “Little Giant,” he finished fourth, behind John Bell and John Breckinridge, when he was nominated by Northern Democrats in the 1860 presidential election. For 10 points, name this Democratic Senator from Illinois who debated Abraham Lincoln in 1858.

ANSWER: Stephen Arnold Douglas

10. One of this author’s novels contains a comical scene in which the protagonist and a woman who continually provides different names are arrested and put into various taxis shortly after the protagonist enters Ataguitana. In one of his novels, a Sultana summons Ermes Marana to Arabia and an OEHLW agent defends Bertrand Vandervelde against the plagiarist Silas Flannery. In one novel by this author, the protagonists visit Professor Uzzi-Tuzii, who reads from an unfinished work of Ukko Ahti and explains the conflict between (*) Cimmeria and Cimbria. In that novel by this man, several misprinted novels cause an encounter between Ludmilla, the Other Reader, and You, the Reader. For 10 points, name this postmodern Italian author who wrote about Marco Polo and Kublai Khan in *Invisible Cities* and penned *If on a winter’s night a traveler*.

ANSWER: Italo Calvino [or Italo Giovanni Calvino Mameli]

11. A museum dedicated to this artist is housed within the Hotel Salé in Paris. While married to the dancer Olga Khokhlova, this artist had an affair with the seventeen year-old Marie-Therese Walter. Fernande Olivier served as the model for many of this artist's works, including his *Head of a Woman* series, which shows a head in many parts. This pioneer of (*) Assemblage art inexplicably gifted a sculpture that now serves as a jungle gym to the city of Chicago for the Daley Plaza. One of this artist's paintings shows a bull standing over a mother and her dead child and also includes a rearing, screaming horse and an eye-shaped light bulb. For 10 points, name this Spanish pioneer of Cubism who painted *Guernica*.

ANSWER: Pablo Picasso [or Pablo Diego José Francisco de Paula Juan Nepomuceno María de los Remedios Cipriano de la Santísima Trinidad Ruiz y Picasso]

12. The son of a leader of this country sued the makers of the film *The President's Last Bang*, which depicts that leader as a libertine. This country used criminals as "Unit 684," which was a black ops team trained to assassinate an enemy leader. In October 1979, a president of this country was killed by his security chief while inside the Blue House compound; that man's daughter leads the Saenuri Party. One president's peaceful foreign policy was known as the "Sunshine Policy." First led by (*) Syngman Rhee, this country's Third Republic was started by Park Chung-hee. Former president Kim Dae-Jung won the Nobel Peace Prize for his efforts to reconcile with this country's northern neighbor. For 10 points, name this Asian country separated by the DMZ from its Communist northern neighbor.

ANSWER: South Korea [or Republic of Korea, or Daehan Minguk, do not accept "Democratic People's Republic of Korea" or "Chosŏn Minjujuŭi Inmin Konghwaguk" or "North Korea" or "Chick Corea"]

13. Along with a British scientist, this scientist names a phenomenon which occurs when perturbations are introduced due to velocity shear. One partial differential equation named for this man states that the Laplacian is equal to the negative square of the wavenumber. The generation of a sound when air is blown over an open bottle occurs due to a resonance named for this scientist. One quantity named for this scientist can be calculated as (*) internal energy minus the product of temperature and energy and is used when pressure is changing instead of a similar value named for Gibbs. For 10 points, name this German chemist who names a type of free energy.

ANSWER: Hermann von Helmholtz

14. This work's first chapter frames it as the story of an unnamed woman whom his sister knew, which is told at a country-house Christmas party. In this work, which is in the same genre as its author's "The Jolly Corner," the protagonist's attempts to write a letter to an uncle are nearly thwarted when a mysterious draft blows out a candle. The housekeeper Mrs. Grose appears in this work, which ends with a little boy (*) dying in the arms of the narrator. In this work, narrated by the unnamed governess at Bly, the children Miles and Flora are visited by Peter Quint and Miss Jessel. For 10 points, name this ghost story by Henry James.

ANSWER: *The Turn of the Screw*

15. It's not a civil war, but both sides in this war contemporaneously backed opposing factions in the War of the Two Peters. In one of its final battles, a commander previously captured at Patay was killed. That battle in this war was won when Jean Bureau set up a ditch and cannon around his camp near Castillon. This war featured a military commander nicknamed "La Hire," who is traditionally associated with the image of the Jack of Hearts. One side had its navy destroyed at the Battle of (*) Sluys and suffered a decisive defeat on St. Crispin's Day. During this war, Henry V won the Battle of Agincourt, while his opponents were inspired by Joan of Arc. For 10 points, name this war between England and France that lasted from 1337 to 1453.

ANSWER: Hundred Years' War [or La Guerre de Cent Ans]

16. This figure claimed that God was the inspiration for all human knowledge in his book *On the Trinity*. This man fought against a group of heretics who condemned sexual immorality but claimed sexual urges were natural and God-given. One book by this man asserts that we must reject pacifism in the face of grave harm and introduces a “just war” as an appropriate response. That book by this man contrasts the worldly society of (*) pagans with the title place. This strident anti-Pelagian was commanded by a child’s voice to “take and read”, which led him to fully embrace the teachings of Ambrose of Milan. This author of *City of God* described how his mother, Monica, urged him to abandon Manichaeism in an autobiography that details his conversion to Christianity. For 10 points, name this North African Church Doctor who wrote *Confessions*.

ANSWER: Saint Augustine of Hippo [or Saint Augustinus; or Saint Austin; or Blessed Augustine; or Aurelius Augustinus Hipponensis]

17. One section of this work notes that “moments of weariness or exaltation” may lead us to consider forsaking the world voluntarily and claims that its author had surrendered himself to the “spontaneity” of the soul. In one poem from this collection, the speaker wishes for his country to wake to a place “where tireless striving stretches its arms towards perfection” and “where the mind is without fear”. Its most famous poems include one whose speaker claims “the (*) light of your music / lights up my universe” and the first one, which opens with the line “thou hast made me endless / such is thy pleasure.” Many of its poems focus on a relationship with the “lord of my life”, or “jivandeavata”. For 10 points, identify this collection which was published with an encomiastic introduction by W.B. Yeats in 1912, essentially winning the Nobel for its author Rabindranath Tagore.

ANSWER: Gitanjali [or Song Offerings]

18. The first person to have his jersey retired by this college basketball team was future Pittsburgh Pirates shortstop Dick Groat. Another person to play for this college team appeared in a commercial where a teenager unsuccessfully tries to emulate his playing skills by drinking Sprite. Yet another player for this team stepped on the chest of Kentucky’s Aminu Timberlake during a postseason game. An alumnus was described as an (*) “Uncle Tom” by former Michigan star Jalen Rose in a *30 for 30* interview. It won a game after Grant Hill threw a full-court pass to Christian Laettner, who hit a last-second shot. This team’s fan base is known as the Cameron Crazies. For 10 points, name this basketball team coached by Mike Krzyzewski (sha-sheff-ski), the in-state rival of the North Carolina Tar Heels.

ANSWER: Duke Blue Devils [accept either underlined portion]

19. One property governing this phenomenon reflects the fact that its strength has a lower bound as distance grows. Another property of this phenomenon is that its strength decreases asymptotically at high energies and short distances. The mediation of this phenomenon by pions is the subject of the Yukawa interaction. In the standard model, the theory of this phenomenon is a non-Abelian gauge theory based on (*) SU(3) symmetry. The two aforementioned properties are confinement and asymptotic freedom, respectively. The gauge boson of this force also participates in this force in addition to mediating it, since the gluon also carries color charge just like quarks. For 10 points, name this force which is explained by quantum chromodynamics, the most powerful of the four fundamental forces, which is responsible for the binding of protons and neutrons in a nucleus.

ANSWER: strong nuclear force

20. This poem’s speaker notes that we trust “that nothing walks with aimless feet” and that “somehow good will be the final goal of ill” before lamenting that he is “an infant crying in the night; and with no language but a cry”. Its epilogue describes the wedding of the poet’s sister, while its early sections relate its addressee’s journey from Venice to the banks of the Severn. A late section of this poem is sometimes excerpted as “Ring Out, Wild Bells”. This poem asks “are God and Nature then at strife?”, describing the latter as (*) “red in tooth and claw”. Its 84th canto relates a “truth that came with bier and pall”, namely that “’tis better to have loved and lost, than never to have loved at all”. For 10 points, identify this poem written as a requiem for the late Arthur Henry Hallam, a work of Alfred, Lord Tennyson.

ANSWER: “In Memoriam A.H.H.”

21. **The protein defective in this condition is generally anchored by a PDZ domain. This condition is detected in a test that involves application of pilocarpine. Clubbed fingertips and toes are common in patients of this condition, and the protein defective in this condition functions as a thiocyanate (*)** transported. This protein is most often caused by delta F-508 mutations, in which a phenylalanine residue is absent from a protein which transports sodium and chlorine across membranes. Patients of this disease have dangerously high lung mucus levels. For 10 points, name this disease whose patients have very high sweat chloride concentrations, which is abbreviated CF.

ANSWER: cystic fibrosis [accept CF until mentioned]

Bonuses

1. This historical figure appears in the play *The Royal Hunt of the Sun*. For 10 points each:

[10] Name this ruler, who took the throne after defeating his half-brother Huascar in a war after the death of his father, Huayna Capac. The war left this man's empire susceptible to outside invasion, so he was the last sovereign emperor.

ANSWER: Atahualpa [or Atabalipa]

[10] Atahualpa was an emperor of this native South American empire, which was conquered by Francisco Pizarro for the Spanish.

ANSWER: Incan Empire [or Tawantinsuyu]

[10] In this November 1532 battle, Pizarro's forces captured Atahualpa and killed 2,000 Incas. Some accounts state this battle began after the emperor threw a Bible on the ground.

ANSWER: Battle of Cajamarca

2. Operations on these mathematical objects include union, intersection and symmetric difference. For 10 points each:

[10] Name these mathematical objects whose naive theory was shown to be problematic by Russell's paradox, which considers one of these objects which contains all of these objects which are not elements of themselves.

ANSWER: sets

[10] According to this statement, given any indexed family of nonempty sets, there is an indexed family of elements of those sets. It is equivalent to the well-ordering theorem and Zorn's lemma.

ANSWER: axiom of choice

[10] The axioms of Zermelo-Fraenkel set theory are designed to be true for all sets in the "cumulative hierarchy" developed by this Hungarian mathematician, who also co-names an extension of ZFC with Paul Bernays and Kurt Gödel.

ANSWER: John von Neumann [or Neumann János Lajos]

3. Identify the following Hermann Hesse novels, for 10 points each.

[10] The title character of this novel joins the Samanas with his friend Govinda, but rejects the Buddha's teachings and marries Kamala. Later, he returns to a riverbank, where he achieves enlightenment.

ANSWER: Siddhartha

[10] Franz Kromer's bullying is stopped by this novel's title character, who helps Emil Sinclair achieve self-realization in part by introducing him to the Gnostic god Abraxas.

ANSWER: Demian: *The Story of Emil Sinclair's Life* [or *Die Geschichte einer Jugend*; or *The History of a Youth*]

[10] One of this book's title characters is inspired by a sexual encounter with a Gypsy to leave a monastery, after which he studies sculpture under Master Niklaus. The other title character stays at the monastery, where he becomes an abbot.

ANSWER: Narcissus and Goldmund [accept Death and the Lover or Narziss und Goldmund]

4. Mark Twain was not a fan of this 1538 painting, which served as a major inspiration for the much later *Olympia* by Edouard Manet and depicts maids rummaging through a chest in the background. For 10 points each:

[10] Identify this markedly erotic Titian painting, which depicts a reclining Roman goddess gazing at the viewer and suggestively covering her genitals with her left hand.

ANSWER: Venus of Urbino

[10] Titian based Venus's pose on the *Sleeping Venus* painted by this earlier Venetian artist of *The Three Philosophers*, who depicted a breastfeeding woman chilling by a stream in his painting *The Tempest*.

ANSWER: Giorgione Barbarelli da Castelfranco [or Zorzon]

[10] This otherwise unrelated Venetian artist painted *The Return of the Bucentaur to the Molo on Ascension Day* and a number of other highly detailed *vedute*, or cityscapes, of both Venice and London.

ANSWER: Canaletto [or Giovanni Antonio Canal]

5. This class of compounds inhibits the production of prostaglandins from arachidonic acid by inhibiting cyclo-oxygenases. For 10 points each:

[10] Name this class of medicines, whose members include aspirin and ibuprofen. Their name refers to the fact that they do not have a four cycloalkane structure.

ANSWER: **NSAIDs** [or **Non-steroidal anti-inflammatory drugs**; accept **NSAImedicines** or **NSAIAgents**]

[10] Aspirin also decreases the chance of heart disease by inhibiting the aggregation of these cells. When these cells aggregate, they form blood clots.

ANSWER: **platelets**

[10] Overuse of NSAIDs can result in the formation of these structures in the GI tract. These structures are caused by breaks in the mucosal lining and are generally caused by *H. pylori*.

ANSWER: **ulcers** [accept more specific answers like **peptic ulcers** or **duodenal ulcers**]

6. Paul Pennyfeather is kicked out of Scone College after being caught running around sans pants in the first novel by this author, whose son Auberon co-created the Literary Review's Bad Sex in Fiction Award. For 10 points each:

[10] Identify this English author of the satirical *Decline and Fall*, who wrote about Charles Ryder's repeated encounters with Sebastian Flyte and the rest of the Marchmain family in *Brideshead Revisited*.

ANSWER: Evelyn **Waugh** [or Arthur Evelyn St. John **Waugh**]

[10] In this Waugh novel, which takes its title from Eliot's *The Waste Land*, Brenda marries Jock Grant-Menzies after her husband Tony Last becomes trapped in Brazil, forced to read Dickens to Mr. Todd.

ANSWER: A **Handful of Dust**

[10] Guy Crouchback's experiences in World War II are detailed in this Waugh trilogy, which consists of the novels *Men at Arms*, *Officers and Gentlemen*, and *Unconditional Surrender*.

ANSWER: the **Sword of Honour** trilogy

7. Name some stuff about food in Ashkenazi Judaism, for 10 points each:

[10] This braided loaf of rich, eggy bread is traditionally baked for Shabbat or holidays.

ANSWER: **halla** [or **challah**; or **hallot**; or **khale**; or **barkis**]

[10] Challah is usually blessed with and dipped in this substance that represents the everlasting covenant with God. Jesus states that his followers are the *this* "of the earth".

ANSWER: **salt**

[10] Some people eat these meat-filled dumplings on Purim since their hidden insides are reminiscent of Esther's surprise persuasion of Xerxes. These pasta-like dumplings are sometimes eaten before fasting on solemn holy days.

ANSWER: **kreplach** [or **krepl**; do not accept "hamantasch(en)"]

8. In one of this man's opera's, Horemhab and Aye sing extracts from letters written in Akkadian. For 10 points each:

[10] Identify this avant-garde American composer whose opera *Akhmaten* is part of his *Portrait Trilogy*, which also includes an opera divided by five "knee plays" called *Einstein on the Beach*.

ANSWER: Philip Morris **Glass**

[10] This entry in Glass's *Portrait Trilogy* opens on the "Kuru Field of Justice" and is named for a nonviolent philosophy.

ANSWER: **Satyagraha**

[10] *Einstein on the Beach* was a collaboration between Glass and this influential stage director, who also worked with Glass, David Byrne, and others on the massive early-80s opera *the CIVIL warS*.

ANSWER: Robert **Wilson**

9. The magnetic constant, usually symbolized as mu-naught, is also known as the permeability of this medium. For 10 points each:

[10] The constant symbolized ϵ_0 is the speed of light in this medium which is space which is free of all matter.

ANSWER: vacuum [prompt on “free space” or equivalents]

[10] The vacuum was described by this man as his namesake “sea” of particles of negative energy. This scientist is also the namesake of a function which is zero everywhere except at zero.

ANSWER: Paul Dirac

[10] When two plates are placed parallel to each other in a vacuum, they can be attracted or repulsed even in the absence of an external field due to this effect, which can be explained using virtual particles.

ANSWER: Casimir effect

10. He accidentally killed Cyzicus, king of the Doliones, during a nighttime fight, fathered twins with Hypsipyle, the queen of Lemnos, and founded Ljubljana after killing a dragon. For 10 points each:

[10] Identify this rightful king of Iolus who, in order to recover his throne, was tasked by the usurper Pelias with the search for the Golden Fleece, for which task he assembled the Argonauts.

ANSWER: Jason [or Iason, but not “Aeson”, because that’s his father]

[10] The star-studded crew of the *Argo* even included Heracles, until he was left behind in Mysia while searching for this young boy, his companion, who had been abducted by nymphs at the spring of Pegae.

ANSWER: Hylas

[10] Jason learned how to pass the Symplegades from Phineus, who had been rescued by Calais and Zetes from these shrieking, winged women who constantly stole his food. They included Aello, Ocypete, and Celaeno, or Podarge.

ANSWER: the harpies [or harpyia; or harpeia]

11. In the story in which this character first appears, he accompanies his father to the title “Indian Camp”, where the latter performs an emergency C-section on a woman whose husband then commits suicide. For 10 points each:

[10] Identify this semi-autobiographical character created by Ernest Hemingway, who appears in such other stories as “Big Two-Hearted River”, “The Three-Day Blow”, “In Another Country”, and “The Killers”.

ANSWER: Nick Adams [accept either underlined part]

[10] Many of Hemingway’s stories were written according to this principle, which he first described in *Death in the Afternoon*. It states that a writer, if he knows what he is writing, can omit things that he (a) knows and (b) can cause the reader to understand.

ANSWER: the iceberg theory/principle/etc. [prompt on equivalents of “theory of omission”]

[10] Hemingway also explained the iceberg theory in a *Paris Review* interview given shortly after the publication of this novella, in which Santiago spends several days struggling with a giant marlin.

ANSWER: *The Old Man and the Sea*

12. One of this composer’s pieces is sometimes known as the “Little Dog” because this man composed it after watching a dog chase its tail. For 10 points each:

[10] Name this Polish composer who invented the ballade and composed the *Minute Waltz*.

ANSWER: Frederic Francois Chopin [or Fryderyk Franciszek Szopen]

[10] Chopin’s 27 works in this genre include twelve in his Opus 10, twelve in his Opus 25, and a November Uprising-inspired one called *Revolutionary*.

ANSWER: études [prompt on study or studies]

[10] The third movement of Chopin’s Piano Sonata No. 2 contains two instances of a B-flat minor work of this type.

ANSWER: funeral march [prompt on march]

13. Answer the following about Mary Ainsworth. No, not the crazy woman Andrew used to work with at Culver's. The other one. For 10 points each:

[10] Ainsworth developed the "strange situation" to test a child's interaction with a person of this relationship to the child. Bruno Bettelheim claimed that a person with this relationship acting like a "refrigerator" caused autism.

ANSWER: **mother** [accept **parent** or **father**; prompt on **caregiver**]

[10] Ainsworth's "attachment theory" grew in part from the wire and terrycloth mother experiments of this Wisconsin-based serial tormenter of rhesus monkeys who invented the "pit of despair."

ANSWER: Harry Frederick **Harlow** [or Harry **Israel**]

[10] Another female American psychologist is this UC-Irvine professor who used films of car crashes in a study on the mutability of eyewitness testimony and pioneered the "lost in the mall" technique in her studies of false memories.

ANSWER: Elizabeth Fishman **Loftus** [accept Elizabeth **Fishman**]

14. This work ends with a voiceover saying "The stakes are too high for you to stay home." For 10 points each:

[10] Name this work which features a little girl standing in a meadow, picking petals. Her counting is cut off by a missile launch countdown, and it ends with a mushroom cloud caused by a nuclear explosion.

ANSWER: "**Daisy** Girl" spot [or "**Peace, Little Girl**"]

[10] The "Daisy" spot promoted the campaign of this incumbent president over Barry Goldwater. This man took over after John F. Kennedy was assassinated.

ANSWER: Lyndon Baines **Johnson** [or **LBJ**]

[10] During the 1964 election, this conservative wrote the pro-Goldwater book *A Choice, Not an Echo*. This activist founded the Eagle Forum and was noted for her opposition to the Equal Rights Amendment.

ANSWER: Phyllis McAlpin Stewart **Schlaflly** [or Phyllis **Stewart**]

15. Answer the following about a technique used to remove impurities from solid compounds, for 10 points each:

[10] In this technique, impure solids are dissolved into a minimal amount of hot solvent, which is then allowed to slowly cool down. It relies on the fact that solubility decreases with temperature.

ANSWER: **recrystallization** [accept specific types]

[10] Recrystallization is generally followed by this process, which can be conducted using devices named for Buchner, into which Whatman papers are placed to trap the solid product.

ANSWER: **filtration** [accept specific **vacuum filtration** or **gravity filtration**]

[10] The purity of solids is checked by measuring this value, which is depressed by impurities. At this point, materials transition from the solid to the liquid phases.

ANSWER: **melting point**

16. Broadcaster Alan Jones said that this leader's deceased father "died of shame," prompting a rebuke from Jones' employers at the Macquarie Radio Network. For 10 points each:

[10] Name this Prime Minister who succeeded Kevin Rudd as both Prime Minister and leader of the Labor Party.

ANSWER: Julia **Gillard**

[10] Gillard is the current Prime Minister of this country, whose states include New South Wales and Queensland.

ANSWER: Commonwealth of **Australia**

[10] Gillard greatly admires UK Labour politician Aneurin Bevan. During Clement Attlee's government, Bevan spearheaded the establishment of this British institution that is funded through taxation.

ANSWER: **National Health Service** [or **NHS**, accept answers involving something like **United Kingdom/British/English health care**, accept **Health and Social Care in Northern Ireland** or **HSENI**]

17. One character on this show, Bobby, is a semi-pro golfer who lives on his boat in a parking lot. For 10 points each:

[10] Name this sitcom about Jules Cobb, a divorced, single mother who loves drinking wine and lives in Gulf Haven, Florida. It was created by *Scrubs* creator Bill Lawrence and features Christa Miller as Jules' best friend.

ANSWER: **Cougar Town**

[10] As its incessant promos aired during the MLB playoffs let you know, *Cougar Town* now airs on this cable network. Its other "Very Funny" shows include various Tyler Perry programs and repeats of *Seinfeld* and *The Big Bang Theory*, not to mention *Neighbors from Hell*.

ANSWER: **TBS** [accept **Turner Broadcasting System**]

[10] TBS should not be confused with TNT, which proclaims "We Know Drama." This generically named TNT procedural series stars Mary McDonnell and is a spin-off of *The Closer*. Its name references the department headed by McDonnell's character.

ANSWER: **Major Crimes**

18. This philosophical work rejects traditional moral for restricting authentic actions and distinguishes between someone-in-itself and someone-for-itself

[10] Name this essay that argues that authentic living must abandon the teleological self-deception that results in bad faith.

ANSWER: **Being and Nothingness: An Essay on Phenomenological Ontology** [or *L'Être et le Néant*]

[10] This French existentialist and longtime partner of Simone de Beauvoir wrote *Existentialism is a Humanism* along with *Being and Nothingness*

ANSWER: Jean-Paul **Sartre** [or Jean-Paul Charles Aymard **Sartre**]

[10] In *Being and Nothingness*, Sartre claims that our self-centered view of the world is violated when others consider us as "objects" instead of fellow subjects, a relationship characterized by this gesture.

ANSWER: the **look** [or le **regard**]

19. The alternate name for this dramatic form, *ningyo joruri*, refers to its combination of chanting, shamisen playing, and the objects used instead of traditional actors. For 10 points each:

[10] Identify this form of Japanese theater, noted for its use of large puppets. Its undisputed master is the seventeenth-century playwright Chikamatsu Monzaemon.

ANSWER: **bunraku**

[10] The dastardly oil merchant Kuheiji appears in one of Chikamatsu's bunraku plays in this genre, other examples of which include his *The Courier from Hell*. These plays generally center on the conflict between *ninjo*, or emotions, and *giri*, or social strictures.

ANSWER: **love-suicides** [or **shinju**; or **double suicides**; prompt on "sewamono" or "domestic plays"]

[10] Kaname becomes interested in traditionalism while attending a performance of Chikamatsu's *Love Suicides at Amijima* in *Some Prefer Nettles*, a novel by this Japanese author of *The Makioka Sisters*.

ANSWER: Jun'ichiro **Tanizaki** [accept names in either order]

20. This person was mocked as "L'Autrichienne," or "the Austrian woman." For 10 points each:

[10] Name this woman married to Louis XVI of France. Like her husband, she was killed by guillotine in the French Revolution. There is no evidence to suggest she ever said "Let them eat cake."

ANSWER: **Marie Antoinette** [or **Maria Antonia** Josephina Johanna]

[10] Louis XVI and Marie attempted to escape Paris to start a counter-revolution in 1791. They made it as far as this town before being captured, prompting charges of treason to be filed against the king.

ANSWER: **Varennes-en-Argonne**

[10] This cousin of the king and Duke of Orleans supported the French Revolution but was guillotined anyway. His son with the same name and title later overthrew Charles X to become king of France himself.

ANSWER: **Louis Philippe** Joseph d'Orleans [or **Philippe Egalite**, prompt on Mr. **Smith**]

21. This work opens with a group of characters singing the Dixit Dominus . For 10 points each:

[10] Name this musical in which a group of nuns sings "Climb Every Mountain."

ANSWER: *The **Sound of Music***

[10] A John Coltrane album is named for this song from *The Sound of Music*, in which "raindrops on roses" and "whiskers on kittens" are examples of the title objects that make Maria happy.

ANSWER: "**My Favorite Things**"

[10] Captain Von Trapp sings this song at the concert in *The Sound of Music*. The title object of this song is "small and white" and "clean and bright," and is asked to "bless the [singer's] homeland forever."

ANSWER: "**Edelweiss**"