Ladue Invitational Spring Tournament VI

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ROUND 7 - TOSSUPS

1. **Variations of the second part of this process contain malate as an intermediate, and the Z scheme in this process contains the molecules Plastoquinone and Ferredoxin. The only known enzyme that oxidizes water is a component of this process, and the most abundant enzyme on earth, RuBisCO, is necessary for the** (*) light-independent part of this process. One part of this process can be cyclic or noncyclic, and this process uses the molecules FADH and NADPH to shuttle electrons. This process results in the creation of glucose and oxygen, while it consumes water and carbon dioxide. For ten points, name this process in which plants capture energy from sunlight.
ANSWER: **photosynthesis** [anti prompt on "light dependent reactions" or "electron transport chain" before "second part" is mentioned]
<LP>

2. **Gail Halverson became known as the "candy bomber" after dropping twenty three tons of candy on this city. A meeting held in this city revised a treaty that recognized Montenegro, Serbia, and Romania as free states and ended the Russo-Turkish War known as the Treaty of San Stefano. Christo and Jeanne-Claude wrapped this city's** (*) parliament building in polypropylene, which was set on fire in 1933 by a communist bricklayer. This home of the Reichstag and Brandenburg Gate became divided by a structure that Ronald Reagan would order Mikhail Gorbachev to tear down. For ten points, name this city that was split in half by a wall during the Cold War, the capital of Germany.
ANSWER: **Berlin**
<RP>

3. **This work claims that the misinterpretation of scripture can result in an ignorant "confederacy of deceivers".
Although this work affirms the fear of violent death, or** *summum malum*, **it rejects the opposing concept of the greatest good, or** *summum bonum*. **The first section of this work, "Of Man", posits the state of nature as a** (*) "war of all against all", and the twelve principal rights of the sovereign are listed out in its section "Of Commonwealth". This work describes life as "solitary, poor, nasty, brutish, and short". For ten points, name this philosophical book written in support of the absolute monarchy in England, a work of Thomas Hobbes.
ANSWER: ***Leviathan****: Or, the Matter, Forme, and Power of a Commonwealth Ecclesiastical and Civil*
<RP>

4. **Simon Lokodo alleged that children were being "recruited" to become these people in his country. In Indonesia's Aceh province, these people can be sentenced to 100 lashes, and Ireland's Ashers Bakery faced recent criticism after denying to make a cake with a picture of two Sesame Street characters and a message advocating for these people's rights. In 2014,** (*) Uganda introduced a bill which stated that life imprisonment of the death penalty were justifiable punishments to these people. A June 2015 case in the U.S., *Obergefell v. Hodges*, legalized the marriage of these people. For ten points, name these people that are attracted to their same sex.
ANSWER: **homosexual**s [accept equivalents like **gay**, **lesbian**, **queer**]
<AG>

5. **This man predicted the existence of silicon and the elemental nature of sulfur. This scientist proved that breathable air is converted to carbon dioxide, or "fixed air," using respiration or combustion rather than a mythical element which was thought to be the product of combustion. That element,** (*) phlogiston, was discarded along with the four classical elements in exchange for a new nomenclature partially designed by this man to help with his theory of oxygen and chemistry. This man's measurements proved that although matter may change shape and properties after reactions, its mass always stays consistent. For ten points, name this formulator of the law of conservation of mass, nicknamed the "father of modern chemistry".
ANSWER: Antoine-Laurent de **Lavoisier**
<CL>

6. **A character in this novel referred to as Reverend Mother develops a habit of referring to things as "whatsitsname". That character, Naseem, marries the tuberculosis-ridden Aadam Aziz, years after they had first met through a perforated bed sheet. The main character of this novel was switched at birth with** (*) Shiva by the nurse Mary Pereira. After a failed affair with Shiva, Parvati the Witch marries the protagonist Saleem Sinai, who attributes his telepathy and excellent sense of smell to the fact that he was born on August 15, 1947. For ten points, name this novel whose title characters were all born within the hour of India's independence, by Salman Rushdie.
ANSWER: *__Midnight's Children__*
<RP>

7. **After being with these people, a person who had been told by a seer that he would never taste the wine made from his grapes dies just before tasting the wine. A person who joined this mythological group despite foreseeing his death with them joined them anyway was named Idmon. This group encountered women who smelled foul on the island of Lemnos because they had killed their husbands. Because he played his (*)** lyre loudly, Orpheus was able to distract the members of this group from the songs of the sirens. After returning from Colchis, the leader of these people married Medea. For ten points, name this group of heroes who sailed with Jason to recover the Golden Fleece.
ANSWER: **__Argonauts__**
<MS>

8. **In an episode of this TV series with guest star Richard Speight Jr., one character dies both from eating tacos and falling in the shower, and in a different episode a character remarks that gay love can pierce through the veil of death after his dead intern saves him. In the current season of this series one character remarks after shooting Hitler in the head that he deserves some (*)** pie**,** and in season five a character throws a molotov cocktail at Michael and calls him an assbutt. That character, who always wears a trench coat, is later resurrected by Chuck, who is secretly god. For ten points, name this CW television series that follows the multiple lives and deaths of the monster-hunting brothers Sam and Dean Winchester and the angel Castiel.
ANSWER: *__Supernatural__*
<LP>

9. **One theorem states that the maximum efficiency of a heat-engine is this quantity divided by the heat put into the system, which is maximized when the engine is a Carnot engine. In an isobaric environment, the magnitude of this quantity for an ideal gas is equal to pressure times the (*)** change in volume, and because the force generated by it is always perpendicular to the particle it acts on, this quantity due to a magnetic field is zero. This quantity is also zero on a closed path, and though not potential energy, this quantity due to gravity is equal to mass times gravity times the change in height. For ten points, name this quantity, equal to the product of a force and the distance through which it is applied.
ANSWER: **__work__**
<MS>

10. **The garbage collector of the central town in this novel is Zeebo, who is the only one that can read at the First Purchase church. When a first grader pours an excessive amount of molasses on his dinner while at the central family's house, the narrator of this novel mocks him. Carved soap figurines, old coins, and a pocket watch are among items found in a (*)** tree hole by the central characters, who later find those objects to be gifts of Boo. When it is discovered that one character has a limp left hand, the rape accusations of Mayella Ewell fall flat; however, Tom Robinson is still found guilty despite the efforts of his lawyer Atticus. For ten points, name this novel narrated by Scout Finch about prejudice in the town of Maycomb, Alabama by Harper Lee.
ANSWER: *__To Kill a Mockingbird__*
<RP>

HALFTIME

11. **One member of this movement painted a girl wearing a white dress with seven blue bows standing on a swing. That artist from this movement also painted works such as *Two Sisters On the Terrace* at the Maison Fournaise restaurant. Another member of this movement painted a portrait of the Bellelli family and** (*) *A Cotton Office in New Orleans*. A pioneer of this art movement portrayed haystacks throughout the seasons as well as a series of over 250 murals of water lilies. For ten points, identify this French art movement whose major proponents included Auguste Renoir, Edgar Degas, and Claude Monet.
ANSWER: **impressionism** [accept word forms]
<RP>

12. **Christians in the Eastern churches perform this action for three days to remember the repentance of the Ninevites. In Jainism, *sallekhana* is gradually doing this at the end of one's life. In Judaism, it is called *ta'anit*, and is observed on the day of Tisha B'Av. Muslims must perform this action for about thirty** (*) days in the ninth month of the lunar calendar, and a *Gandharan* depiction of a gaunt and frail Buddha shows him after performing this action. Roman Catholicism encourages people to do this on Good Friday by only having two small meals and one full one. After Ramadan Muslims "break", for ten points, what practice of giving up food for a certain amount of time?
ANSWER: **fast**ing [also accept **sawm**, other religious equivalents, or descriptions like **not eating**)
<AG>

13. **This country became a democracy after its communist Derg regime ended, and Roman Catholicism became its dominant religion under Susenyos I. This nation's decentralized Zemene Mesafint, or "Era of the Princes" concluded when Tewodros II came to power. Menelik II restored the power of this country, in which the** (*) Axum empire ruled. This nation was supposedly home to the Queen of Sheba, and its Solomonic Dynasty included Haile Selassie I. The Amhara make up a significant portion of this country's people. For ten points, identify this African nation whose largest city is Addis Ababa.
ANSWER: **Ethiopia**
<AG>

14. **In a novel by this author, a love triangle emerges between Fanny, David Hosmer, and the protagonist, and that novel, *At Fault*, centers on landowner Therese Lafirme. Alcee and Calixta have a love affair while Bibi and Bobinot are away in one of this author's short stories while in another, Armand** (*) Aubigny burns all of the title character's possessions after she births a mixed child with him. This author of *The Storm* and *Desiree's Baby* is most notable for a novel in which Alcee Arobin and Robert Lebrun develop relationships with the protagonist who, at the end of the novel, commits suicide by walking into the Gulf of Mexico. For ten points name this author who wrote about Edna Pontellier in *The Awakening*.
ANSWER: Kate **Chopin**
<RP>

15. NOTE: Composer and type of piece required. **The introduction to the fourth one of these compositions is an Adagio with mysterious B-flat minor chords before the Allegro and fortissimo exposition. The final one of these works contains a "symphony within a symphony" in its last movement that incorporates themes from the first three movements, and the sixth of these compositions contains sections such as** (*) "Shepherd's Song." That work is the only one of these with five movements. The third of these compositions was originally dedicated to "the memory of a great man", while the fifth one uses a memorable short-short-short long fate motif. For ten points, name these nine orchestral works including *Eroica* and *Pastoral* by the composer of the "Moonlight Sonata" and "Fur Elise."
ANSWER: **Symphonies** of Ludwig van **Beethoven** [accept equivalents, prompt on partial]
<MS>

16. **This country's oldest national park, Royal Manas National Park protects the Duar landscape it shares with its southern neighbor. The majority of this country, which borders Sikkim to the west, speaks the language Dzongkha. This nation's current Druk Gyalpo, or Thunder Dragon King, is part of the** (*) Wangchuck dynasty, and its national implementation of the goh and kira dresses are part of a program promoting Gross National Happiness. Home to the highest unclimbed mountain in the world, Gangkar Puensum, for ten points, name this Himalayan nation with capital Thimphu.
ANSWER: **Bhutan**
<HR>

17. **An extended law named for this function has a 2R term, and this function is used in the Fourier transforms of odd functions. The hyperbolic type of this function is equal to e to the x minus e to the negative x all over two. The magnitude of the** (*) cross product of two vectors equals the product of their magnitudes times this function of the angle between them, and the derivative of this function is cosine of x. This function is positive when an angle is in the first or second quadrants, and it squared equals one minus cosine of x squared. For ten points, name this function of an angle which is equal to the side opposite that angle over the hypotenuse in a right triangle.
ANSWER: **sine** [also accept **sine of x**, **sin(x)**, and mathematical equivalents]
<AG>

18. **Nicolas Steno found that the faces of this mineral always join at a 60º angle. This member of the silicate family, whose other major members include plagioclase, biotite, and mica, is the last to cool on either branch of Bowen's reaction series. Vermarine is the name for the green type of this mineral, whose other well known examples include** (*) amethyst, citrine, smoky, and rose. Granite is composed mainly of feldspar and this mineral, which has a hexagonal crystal structure. For ten points, name this second most abundant mineral in the Earth's continental crust, a crystalline mineral with formula SiO2.
ANSWER: **quartz**
<NG>

19. **In this work, a character plays a prank by pretending not to know that Friday is a day of the week; that character is Matvei Ilyich. An estate in this work is named Maryino in honor of one character's deceased wife, and another character is described as an "advanced woman" by Sitnikov. After seeing one character kiss Fenichka, Pavel** (*) Petrovich is shot in the leg during a duel. That character in this work dies after he cuts his finger and contracts typhus while performing an autopsy, and he calls Anna Odintsova to his deathbed. For ten points, name this novel about Arkady Kirsanov and his friend Bazarov, written by Ivan Turgenev.
ANSWER: ***Fathers and Sons***
<MS>

20. **Mackenzie King created facilities at Slocan Valley and Christina Lake after enacting this policy in Canada. Two men who were subjected to this policy were shot by Clarence Burleson in the Lordsburg Killings. This system's enactment was partly influenced by the Niihau incident, in which a pilot who took part in the attack on** (*) Pearl Harbor crashed into a Hawaiian island. Tule Lake and Manzanar were the locations of facilities for this system, and *Korematsu v. United States* protested this American practice, which was put forth in Executive Order 9066. For ten points, name this World War II measure taken by the United States against a specific East Asian peoples.
ANSWER: **Japanese Internment** camps [prompt on partial answer, accept any answer relating to the confinement of Japanese-Americans]
<AG>

End of regulation, only proceed if tied

21. **A character in this work prepares to kill a man he has locked out of a house, but that man enters through a window and beats the first one. Another character in this work escapes from her husband and moves to London; that character is Isabella. The title** (*) setting of this work is about four miles from Thrushcross Grange. Near the beginning of this work, Mr. Lockwood has a nightmare in which he sees the ghost of Catherine trying to enter the house, and the next day learns the history of that house from Nelly Dean. For ten points, name this book about Heathcliff Heathcliff, written by Emily Bronte.
ANSWER: ***Wuthering Heights***
<MS>

22. An account of this man's death written by Ctesias claims that he was killed by a revolt led by the Derbices, while another says that the queen of the Massagetae dunked his head in a jar of blood. This man came to power after killing his grandfather, Astyages, to overthrow the Median empire, and he defeated Croesus at the Battle of (*) Thymbra to conquer the Lydian empire. This ruler created the capital of his empire at Pasargadae, and his namesake cylinder proclaims his rule over Babylon. For ten points, name this founder of the Achaemenid Empire.
ANSWER: **Cyrus the Great**
<MS>

BONUSES

1. Bonus: Five days after this event, its ringleader, Abdelhamid Abaaoud, was killed in a police raid. For ten points each:
[10] Name these coordinated bombings and shootings claimed by ISIS that occurred in places like the Bataclan Theatre and Stade de France. A description is acceptable.
ANSWER: November **2015 Paris Attacks** (prompt on "Paris Attacks" and ask for the year, accept clear equivalents)
[10] Afterwards, this Socialist President of France declared that "France will destroy ISIS". He rose to power after succeeding Nicolas Sarkozy in 2012.
ANSWER: François Gérard Georges Nicolas **Hollande**
[10] After Abaaoud was found to have entered Europe by posing as a refugee, this German Chancellor faced criticism for allowing Syrian refugees to enter her country.
ANSWER: Angela Dorothea **Merkel**
<AN>

2. Bonus: Antipater of Sidon listed one of this site's structures as one of the Seven Wonders of the Ancient World. For ten points each:
[10] Name this site of the Great Pyramids, located just outside Cairo.
ANSWER: **Giza**
[10] The Giza pyramid complex contains this iconic limestone statue depicting a creature with a lion's body and a human head.
ANSWER: The Great **Sphinx** of Giza
[10] This Pharaoh of the Old Kingdom commissioned the construction of both the Sphinx and the Great Pyramids at Giza.
ANSWER: **Khufu**
<RP>

3. Bonus: This man created films like *Couch* and *Blow Job* in his art studio, The Factory. For ten points each:
[10] Identify this Pop artist who created paintings of Campbell's soup cans.
ANSWER: Andy **Warhol** [accept Andrew **Warhola** or Andy **Warhola**]
[10] This other Pop artist used Ben Day dots in his works for comic books such as *Drowning Girl* and *Whaam!*.
ANSWER: Roy Fox **Lichtenstein**
[10] Roy Lichtenstein was friends with this artist from the Pop art movement, who defined his "Combines" as hybrids between painting and sculpture.
ANSWER: Milton Ernest Robert **Rauschenberg**
<RP>

4. Bonus: He answered the title question of one work as "man's leaving his self-caused immaturity". For ten points each:
[10] Name this German philosopher who wrote *What is Enlightenment?* He is perhaps best known for his book concerning human knowledge, *The Critique of Pure Reason*.
ANSWER: Immanuel **Kant**
[10] In his *Groundwork for the Metaphysic of Morals*, Kant introduced this concept, which provides a way for one to evaluate moral actions and make moral judgments. An example of this concept is "Brush your teeth, so you don't get cavities".
ANSWER: **Categorical Imperative**
[10] In *The Critique of Pure Reason*, Kant distinguished this type of truth as one whose justification does not rely upon experience, in contrast to a similarly named truth that does. "7+5=12" is an example of this type of statement.
ANSWER: **a priori**
<RP>

5. Bonus: This state's largest lake is Moosehead Lake, which gives rise to the Kennebec river. For ten points each:
[10] Name this northeasternmost state in the United States that contains the cities of Bangor and Augusta.
ANSWER: **Maine**
[10] Maine is home to this national park located on Mount Desert Island. Cadillac Mountain and Somes Sound can be found in this national park, which is the oldest in America east of the Mississippi.
ANSWER: **Acadia** National Park
[10] Mount Katahdin, Maine's highest peak, serves as the endpoint for this hiking trail that begins in Georgia.
ANSWER: **Appalachian** Trail
<AG>

6. Bonus: Many of these entities possess a sphere, dumbbell, or clover shape. For ten points each:
[10] Name these entities that, according to the Pauli exclusion principle, may describe at most two electrons. They are classified into s, p, d, and f forms.
ANSWER: atomic **orbital**s
[10] According to this law governing atomic orbitals, electrons must fill orbitals such that the number of them with the same spin is as large as possible.
ANSWER: **Hund's** rule
[10] This other rule states that electrons must fill all available orbitals of lower energy levels before filling those of higher energy levels.
ANSWER: **Aufbau** principle
<RP>

7. Bonus: Its 5/4 time signature represents the rowing of a boat to the title location. For ten points each:
[10] Name this tone poem, inspired by an Arnold Bocklin painting,that depicts a morbid locale.
ANSWER: *Isle of the Dead*
[10] This composer of *Isle of the Dead* is more famous for his virtuosic piano concertos, the second of which begins with chords depicting the tolling of bells. He is most famous for *Rhapsody on a Theme of Paganini*.
ANSWER: Sergei Vasilievich **Rachmaninoff**
[10] Many of Rachmaninoff's works feature this medieval chant that also appears in Liszt's *Totentanz* and the Witches Sabbath, and whose Latin name translates as Day of Wrath.
ANSWER: **Dies irae**
<ES>

8. Bonus: Answer some questions about people who only spend part of their time in the underworld. For ten points each:
[10] This daughter of Demeter was abducted by Hades and soon released, but she was forced to spend every winter in the underworld because she ate pomegranate seeds while there.
ANSWER: **Persephone** [accept **Cora**]
[10] Although one of these two twins was immortal, the other was mortal. After one of them died, the other requested to share his immortality with the dead one, so one would be in the underworld while the other was with the dead. Name both.
ANSWER: **Castor** and **Pollux** [both required, prompt on single answer. Or **Castor** and **Polyduces**, accept either order, prompt on **Dioscuri**, **Castores**, or **Gemini**]
[10] Castor, Pollux, and their half-sisters Helen of Troy and Clytemnestra were both children of this wife of Tyndareus that was raped by Zeus as a swan. The affair resulted in this woman laying two eggs that would hatch into her children.
ANSWER: **Leda**
<MS>

9. Bonus: Levi Strauss created blue jeans during this event. For ten points each:
[10] Name this craze of the mid 19th century that saw an influx of Americans traveling west to obtain a certain metal.
ANSWER: **California Gold Rush** [prompt on "Gold Rush"]
[10] Many participants in the California Gold Rush were given this nickname. It comes from the year in which the event was at its peak.
ANSWER: **Forty-Niner**s
[10] This man began the California Gold Rush in his initial discovery of gold at Sutter's Mill.
ANSWER: James **Marshall**
<RP>

10. Bonus: Answer some questions about birds. For ten points each:
[10] This subfield of zoology is concerned with the study of birds. John James Audubon, author of *The Birds of America*, was an important figure in this field.
ANSWER: **ornithology**
[10] This family of birds relies on keen vision and talons to attack prey, and includes animals such as hawks, owls, and vultures.
ANSWER: **raptors**
[10] Though not a vulture, this scavenger bird has the largest wingspan of any North American land bird and can live up to 60 years in the wild. It has been reintroduced in the western U.S. after its extinction in 1987.
ANSWER: **California Condor** [prompt on "Condor"]
<NG>

11. Bonus: This text claims "When there was but one mind in England, Chaucer wrote his *Troilus and Cressida*". For ten points each:
[10] Name this text written by William Butler Yeats that discusses a conversation he had with a "distinguished Bengali doctor of medicine". It precedes a collection of poetry and "song offerings".
ANSWER: the **introduction** to the *Gitanjali*
[10] That "doctor of medicine" was this man, the first non-European to win the Nobel Prize in Literature and the author of *Gitanjali*.
ANSWER: Rabindranath **Tagore**
[10] Tagore was also a proponent of the arts, composing two major works in this genre: India's *Jana Gana Mana* and Bangladesh's *Amar Shonar Bangla*. "The Star-Spangled Banner" is another work in this genre.
ANSWER: national **anthem**s
<RP>

12. Bonus: Russell's paradox deals with whether or not one of these entities contains itself or not. For ten points each:
[10] Name these collections of objects. Their cardinality is defined as the number of objects they contain, and the empty one is the only one with no elements.
ANSWER: **set**
[10] Sets with this many elements can be either countable or uncountable, and their cardinalities are represented by aleph sub x, for some x.
ANSWER: **infinite** [accept word forms]
[10] This problem states that aleph one is equal to 2 to the power of aleph null, or, equivalently, no set has a cardinality between the integers and the real numbers.
ANSWER: **continuum hypothesis** [prompt on "CH"]
<MS>

13. Bonus: The Minamoto clan was the first rulers of this government, which was preceded by the Heian Period. For ten points each:
[10] Name this first Japanese shogunate.
ANSWER: **Kamakura** Shogunate
[10] After the Kamakura Shogunate came the Ashikaga shogunate, which was succeeded by this third and final Japanese shogunate founded in 1600 by Ieyasu.
ANSWER: **Tokugawa** Shogunate
[10] In 1868, the Tokugawa Shogunate was replaced by this period of westernization that restored imperial rule to Japan.
ANSWER: **Meiji** Restoration
<RP>

14. Bonus: In females, this process results in the creation of three polar bodies. For ten points each:
[10] Name this process in which one progenitor cell gives rise to four daughter cells that each have half of the DNA of the original cell. Unlike mitosis, this process is used to produce sperm and egg cells.
ANSWER: **meiosis**
[10] In the anaphase I stage of meiosis, chromosomes with this property are separated. This word also refers to anatomical features that are similar between different organisms because they were derived from a single common ancestor.
ANSWER: **homologous** [or **homology**]
[10] The four cells produced by meiosis all have this property, which means they have exactly one copy of each chromosome.
ANSWER: **haploid**y
<BZ>

15. Bonus: Rogozhin kills the beautiful Nastasya Filipovna in his book about Prince Myshkin, *The Idiot*. For ten points each:
[10] Name this Russian author who penned the axe murderer Raskolnikov in *Crime and Punishment*.
ANSWER: Fyodor **Dostoevsky**
[10] Dmitri, Ivan, and Alexei are the sons of Fyodor in this final novel by Dostoevsky. After Dmitri is accused of murdering his father Fyodor, he receives a sentence of twenty years of labor for the crime that Smerdyakov actually committed.
ANSWER: *The **Brothers Karamazov***
[10] *The Brothers Karamazov* contains this frequently cited tale that Ivan tells to Alyosha about the arrest of Jesus for dooming mankind by allowing free will.
ANSWER: The Parable of the **Grand Inquisitor**
<RP>

16. Bonus: His father Dell played for the Charlotte Hornets and his brother Seth currently plays for the Dallas Mavericks. For ten points each:
[10] Name this incredible shooter and two-time NBA MVP, a point guard who wears the number 30.
ANSWER: Wardell Stephen **Curry**
[10] Stephen Curry plays alongside all-stars Kevin Durant and Klay Thompson for this NBA team. Currently coached by Steve Kerr, this Oakland team plays its home games at Oracle Arena.
ANSWER: Golden State **Warriors**
[10] The Warriors selected Curry seventh overall in the 2009 draft from this NCAA team. Steph was named Most Outstanding Player in the Midwest Region for leading this school to the Elite 8 of the 2008 March Madness Tournament.
ANSWER: **Davidson** College
<RP>

17. Bonus: Viktor Suvorov's book *Icebreaker* posits that this man used Nazi Germany to start a war in Europe. For ten points each:
[10] Name this man who led the Soviet Union during World War II.
ANSWER: Joseph **Stalin**
[10] Stalin forced the collectivization of farms and "Dekulakization", which led to famine in this country. Leonid Kravchuk was the first post-independence leader of this second most powerful republic in the Soviet Union.
ANSWER: **Ukraine**
[10] Stalin is often accused of orchestrating this massive famine in the 1930s that killed several millions of people in Ukraine.
ANSWER: **Holodomor**
<GM>

18. Bonus: The main character of this work is placed in a zoo exhibit on the alien planet of Tralfamadore. For ten points each:
[10] Name this novel about the time travelling Billy Pilgrim that takes place during the Dresden firebombing.
ANSWER: *Slaughterhouse-Five*
[10] This author based his magnum opus *Slaughterhouse-Five* off of his own experiences of the 1945 Firebombing of Dresden. He included the recurring author Kilgore Trout in many of his other novels such as *Breakfast of Champions* and *God Bless You, Mr. Rosewater*.
ANSWER: **Kurt Vonnegut**
[10] One of Vonnegut's lesser known works is this dystopian short story set in the year 2081, in which agents of the Handicap General enforce the Equality Laws which require American citizens to wear masks if they are beautiful, radios if they are intelligent, and weights if they are strong.
ANSWER: **"Harrison Bergeron"**
<RP>

19. Bonus: This poem notes that "early though the laurel grows, it withers quicker than the rose". For ten points each:
[10] Name this poem about a runner. The speaker remembers how "the time you won your town the race / We chaired you through the market-place".
ANSWER: **"To an Athlete Dying Young"**
[10] This author included "To an Athlete Dying Young" in his collection *A Shropshire Lad*. He also wrote the poem "The Lent Lily."
ANSWER: A.E. **Housman**
[10] This Housman poem notes that "Malt does more than Milton can/to justify god's ways to man". The poem ends with the title character saying "I tell the tale that I heard told / Mithridates, he died old".
ANSWER: **"Terence, this is Stupid Stuff"**
<MS>

20. Bonus: This oration refers to humans as "the salt of the earth". For ten points each:
[10] Name this speech given by Jesus that declares "blessed are the meek for they shall inherit the earth" and recounts the beatitudes.
ANSWER: **Sermon on the Mount**
[10] The Sermon on the Mount is given in chapters 5-7 of this book, which is the first of the New Testament.
ANSWER: Gospel of **Matthew** [accept Book of **Matthew**]
[10] The Book of Matthew concludes when Jesus arrives in Jerusalem and prays to be spared, but after being tried by the Sanhedrin, his crucifixion is ordered by this man.
ANSWER: Pontius **Pilate**
<RP>

21. Bonus: The typical example used to explain this principle is the pressure difference caused by air going over and under an airplane wing. For ten points each:

[10] Name this principle named after a Swiss physicist, which states that the pressure exerted by a fluid decreases as its velocity increases.

ANSWER: **Bernoulli's** principle

[10] This doubly eponymous set of partial differential equations in fluid dynamics describes the motion of viscous fluids. A famous problem concerns the existence and smoothness of solutions to these equations.

ANSWER: **Navier-Stokes** equations

[10] The Navier-Stokes equations become simpler when the fluid described is one of these fluids. These fluids have constant density within each infinitesimal volume.

ANSWER: **incompressible** [accept **isochoric**]

<AG+MS>

22. Bonus: A variation of rock-paper-scissors includes this character, played by using the Vulcan salute. For ten points each:

[10] Name this half-Vulcan, half-human Star Trek character who serves as science officer on the USS Enterprise. He also delivers the first line in the first episode when he says "check the circuit!"

ANSWER: **Spock**

[10] This actor played Spock in the original Star Trek series. He wrote two autobiographies, *I am not Spock* and *I am Spock*, and he died in February of 2015.

ANSWER: Leonard **Nimoy**

[10] Leonard Nimoy also performed this song, written by Charles Randolph Grean. This song describes the adventures of the title "three feet tall" character who "battled a troll!" and "riddled with Gollum!", the "bravest little hobbit of them all."

ANSWER: The *Ballad of Bilbo Baggins*

<MS>