

Prison Bowl XIII: XIII Is Unlucky for a Reason

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PACKET ONE

Tossups:

1.

Followers of this man's ideology attempted the failed 23-F coup in 1981. Hardline supporters of this man were known as the Bunker, and they gained influence after the death of this man's deputy Luis Carrero Blanco in 1973 at the hands of terrorist group (*) ETA ("EH-ta"). This man rose to prominence commanding the Army of Africa in the Rif War; those troops would later be airlifted by the Condor Legion to support this man. This man led one side in a civil war started after the Popular Front narrowly won a general election. For 10 points, name this dictator of Spain who won the Spanish Civil War.

ANSWER: Francisco **Franco** Bahamonde <PO>

2.

This man, whose final acting role was as the voice of the Transformer Unicron, decried the "hysterical tinkering" of a film studio that completely reshot the ending to his film *The Magnificent Ambersons*. This man claims that Switzerland's greatest invention was the cuckoo clock in his role as a man who is shot and killed in a Vienna sewer, Harry (*) Lime. In a film by this man, a child hits a man in the stomach with a sled which is later burned along with all the other contents of Xanadu, the house of Charles Foster Kane. The American public was panicked by a radio broadcast of *War of the Worlds* created by, for 10 points, what director of *Citizen Kane*?

ANSWER: (George) Orson **Welles** <AJ>

3.

This figure is asked by a similar figure named Diana why she speaks with "a City Hall brogue ("BROHG")" in a short story by O. Henry. Betty Smith's *Maggie-Now* ends with Maggie spreading her husband's ashes from the top of this figure. In one poem, this figure cries, "Keep, ancient lands, your storied pomp!"; that poem begins "Not like the brazen giant of (*) Greek fame." In Franz Kafka's *Amerika*, an object this statue holds is replaced with a sword. A poem depicts this figure saying, "Give me your tired, your poor, / Your huddled masses." For 10 points, name this statue described in Emma Lazarus' "The New Colossus" and which stands in New York Harbor.

ANSWER: **Statue of Liberty** [accept **Liberty Enlightening the World** or **La Liberté éclairant le monde**] <RY>

4.

An instrument called an ADCP uses the Doppler effect to measure these entities. Ekman transport describes a process in which these entities are formed to have a net direction of movement ninety degrees to the wind direction. Thermohaline circulation drives these entities which bound the (*) Sargasso Sea. Benjamin Franklin was the first to map a large one of these entities after noticing a difference in travel time in ships traveling to and from Great Britain. For 10 points, name these continuous flows of water, examples of which include the Antarctic Circumpolar, the Humboldt, and the Gulf Stream.

ANSWER: **ocean currents** [prompt on **currents** by asking "What type of current?"] <DS>

5.

The Red Rocks Amphitheatre is a popular open-air performance site on the outskirts of this city. This city's namesake art museum lies just south of its Civic Center Park, which is bordered to the north by this city's 50-mile-long Colfax Avenue. This city contains a statue which killed its sculptor after its head fell on him, *Blue Mustang*; that statue is located at this city's (*) airport, which is rumored to hide apocalypse-proof tunnels and bunkers. The 13th step of a State Capitol building in this city is located at exactly 5,280 feet above sea level. For 10 points, name this "Mile High City," the capital of Colorado.

ANSWER: Denver <AJ>

6.

The finale of a work by this composer features strings playing major sixths before a hundred repeated "A"s. This composer's Fugue No. 7 in A major contains no dissonance, and another of his works contains a [read slowly] "C D E-flat C E-flat G A-flat long G" motif. This man was denounced in the editorial (*) "Muddle Instead of Music." It's not Ravel, but in one work by this composer, a snare drum ostinato plays for twenty-two bars, repeating twelve times at higher volume and speed as a part of the "invasion" theme. This composer composed two jazz suites, which included his "Waltz No. 2." For 10 points, name this composer of the *Leningrad* symphony.

ANSWER: Dmitri Shostakovich <PO/BC>

7.

In a novella by this author, the title veteran awaits his pension, which has been promised for 15 years, and considers selling his rooster. Santiago Nasar's murder in Sucre is described in another novella by this man, and a novel by this author of *No One Writes to the Colonel* and (*) *Chronicle of a Death Foretold* sees Florentino Ariza and Fermina Daza separated as young lovers but reunited in old age. Aureliano spends his time crafting golden fish, and Melquíades visits Macondo, the home of the Buendía family, in a novel by this man. For 10 points, name this Colombian author of *Love in the Time of Cholera* and *One Hundred Years of Solitude*.

ANSWER: Gabriel (José de la Concordia) García Márquez [prompt on Gabo or Gabito; prompt on García; do not accept or prompt on "Márquez"] <PO>

8.

In one battle, this leader used nineteen bronze cannons from the ship *De Liefde*. Shipbuilder William Adams was an advisor to this ruler. As a child, this ruler lived at Sumpu Castle after having been sent as a hostage to the Imagawa. In one battle, Kobayakawa Hideaki betrayed Ishida Mitsunari and joined this man, who vastly expanded a (*) castle built by Ota Dokan. This most powerful member of the Council of the Five Elders was the winning commander at the Battle of Sekigahara, and he switched his country's capital to Edo in 1603. For 10 points, name this successor of Toyotomi Hideyoshi, who founded a namesake shogunate which ruled Japan until 1868.

ANSWER: Tokugawa Ieyasu [accept names in either order] <CO>

9.

Amagat's law is an extension of a law named for this scientist, and William Higgins alleged that he plagiarized his ideas. Charles, instead of this scientist, received credit from Gay-Lussac for the discovery that gases' temperature and volume are proportional in 1801. Due to this scientist's interest in his own deuteranopia, his name became used as a term for (*) colorblindness. This scientist developed a namesake law of partial pressures and the law of multiple proportions. For 10 points, name this British scientist who posited that matter is made up of indivisible atoms.

ANSWER: John Dalton <BC>

10.

Parmenides thought that this property was eternal. It's not perception, but Thomas Nagel titled an essay about this property in bats. Karl Popper said that proving that something had this property could only happen when someone failed to disprove it. George (*) Berkeley ("BARK-lee") believed that this property was a result of perception. Bertrand Russell compared God's value for this property to this property for an extraterrestrial teapot. People who proved God had this property included Saint Anselm and Thomas Aquinas. For 10 points, name this property, the subject of ontology, which Descartes claimed he had because he could think.

ANSWER: **being** [accept equivalents like **existing** or **sum**] <AJ>

11.

A governor of this state controversially pardoned numerous child rapists and murderers in 2019, and exposed his nine children to chickenpox rather than vaccinating. Donald Trump attacked one congressman from this state for forcing an in-person vote on the CARES Act. Charles (*) Booker lost a Senate primary in this state.

Along with Thomas Massie, this state is home to a senator who was the first to test positive for COVID-19 ("COH-vid-nineteen"). In 2019, Andy Beshear defeated incumbent Republican Matt Bevin to be elected Governor of this state. For 10 points, name this home state of Rand Paul and Mitch McConnell.

ANSWER: **Kentucky** [accept **KY**] <CO>

12.

A scientist from this country is the namesake for a probability distribution with skewness q minus p over root $p q$ and was the first mathematician to use the word integral in its modern sense in a text. This country is the easternmost of the two that Tim Berners-Lee started work on the Internet. A scientist from this country names a principle whereby a sailboat can move (*) faster than the wind pushing it; that principle states that a fast-moving fluid decreases pressure near to it. The Higgs Boson was discovered in this landlocked country at the CERN laboratory. For 10 points, name this European country where Albert Einstein worked in a patent office in the city of Bern.

ANSWER: **Switzerland** [accept **Swiss Confederation**, **Schweitz**, **Suisse**, **Svizzera**, **Svizra**, or Confoederatio **Helvetia**] <AJ>

13.

Under this man, NSC-68 expanded the aims of United States foreign policy. This man was first elected to office with the support of boss Tom Pendergast. During World War II, this man's committee investigated war profiteering and saved billions of dollars. In one campaign, this man's attacks against the (*) "Do-Nothing" Congress helped get him re-elected. This man's namesake doctrine promoted aid to countries on the borders of communism, like Greece and Turkey. This man's approval ratings sagged after firing Douglas MacArthur during the Korean War. For 10 points, name this President who defeated Thomas Dewey in the 1948 presidential election.

ANSWER: Harry S. **Truman** <PO>

14.

An artist from this country created a painting of a streetlight in which the light is shown as individual particles. That artist also created a pointillist painting of a girl running across a balcony in a blue dress. An artist from this country painted *Song of Love*, which depicts a red glove next to a statue's head. *Unique Forms of (*) Continuity in Space* is a sculpture from this country depicting a walking man with no arms; the artist of that work also painted a train with a prominent gold number obscured by smoke and motion in *States of Mind*. For 10 points, Giorgio de Chirico ("GEORGE-oh de KEE-ree-koh") is from what home country of Futurists Giacomo Balla ("JAH-koh-moh BAH-lah") and Umberto Boccioni ("OOM-bare-toe boh-CHOH-nee")?

ANSWER: **Italy** [accept **Italia**] <AJ>

15.

This author created a character who attempts to read all of literature alphabetically by author; that character is Cecily Carruthers (“cuh-RUH-thurs”). A title character of a play by this author stabs an actor with a retractable knife, and another of his characters wonders why jam and rice (*) pudding cannot be stirred apart after being stirred together. That character in a play by this author of *Travesties* is tutored by Septimus Hodge in Sidley Park. This man’s most notable play begins with a coin being flipped and landing on heads 92 times in a row. For 10 points, name this playwright of *Arcadia* and *Rosencrantz and Guildenstern are Dead*.

ANSWER: Sir Tom **Stoppard** [accept Tomas **Straussler**] <RY>

16.

One of these animals created the river Van with his spit, and easily broke metal fetters named Leyding and Dromi before finally being restrained with one created with “impossible” things like a mountain’s roots and a woman’s beard. Two of these animals named Skoll and Hati will devour the (*) sun and the moon at Ragnarok, and their father, also one of these animals, bit off the hand of Tyr. That one of these animals will kill Odin, and another adopted Romulus and Remus after they were placed in the Tiber. For 10 points, name these canine animals exemplified by Fenris and Lupa.

ANSWER: **wolf** [accept **wolves**; accept the Fenrir **wolf** or the Fenris **wolf**] <RY>

17.

JVP, one type of this quantity, forms a biphasic wave with a, x, c, x’ (“x-prime”), v, and y phases. It’s not volume, but this quantity increases glomerular filtration rate and rises in the white coat effect. This quantity is regulated in the body by baroreceptors and Marfan syndrome can cause a dangerous drop in this quantity in the neck and head. This quantity rises when (*) angiotensin triggers vasoconstriction, and this quantity is often expressed in relation to its systolic and diastolic types. For 10 points, name this quantity, measured with a sphygmomanometer (“SFIG-mo-man-AW-meter”), which when elevated is known as hypertension.

ANSWER: **blood pressure** [anti-prompt on arterial pressure or venous pressure] <AJ>

18.

In January 2021, Nick Arbuckle joined this city’s football team from the REDBLACKS, which plays its games at BMO (“BEE-mo”) Field. This city’s NHL team has lost two Game Sevens to the Boston Bruins in a row, and that team in this city acquired a former Islanders captain who rejected the chance to become the NHL’s highest paid player; that player is (*) John Tavares. In July 2018, the Spurs and this city’s NBA team traded Jakob Pörtl (“YAH-kop PUHL-tel”) and DeMar DeRozan for Danny Green and Kawhi (“kuh-WHY”) Leonard, who led this city’s NBA team to the championship. For 10 points, name this Canadian city whose sports teams include the Maple Leafs, the Blue Jays, and the Raptors.

ANSWER: **Toronto** [accept **Toronto** Argonauts, **Toronto** Maple Leafs, and **Toronto** Raptors] <BC>

19.

After one man sent an envoy to remove this man’s retainers, this man had the envoy killed and made into a drum. Vincente de Valverde offered to spare this man a burning at the stake if he converted to Catholicism. This man devastated Cañari lands with the help of generals Chalcuchima and Quisquis. This son of (*) Huayna Capac was captured at Cajamarca by Diego de Almagro and his partner, and he fought a civil war with his half-brother Huascar. This man was ransomed for a roomful of gold and silver, but Europeans had him strangled instead. For 10 points, name this man overthrown by Francisco Pizarro, the last emperor of the Incas.

ANSWER: **Atahualpa** [accept **Atabalica** or **Atabalipa**] <AD>

20.

One work written in this language includes the line, “I bathed in the Poem / Of the Sea, infused with stars,” and another poem in this language opens “Once, if my memory serves me well, my life was a banquet.” The line “Andromache! I think of you” opens a poem in this language, which was also used in a poem that describes a (*) bird’s large wings, which “hinder him from walking.” A novel which sees the title woman Emma Rouault (“roo-oh”) have affairs with Leon and Rodolphe was written in this language, which was also used in *The Flowers of Evil*. For 10 points, name this language used by Arthur Rimbaud, Charles Baudelaire, and Gustave Flaubert.

ANSWER: **French** [accept **français**] <RY>

TB.

Helvering v. Davis ruled this law constitutional under the 10th Amendment. Due to a previous law, railroad workers were not allowed to participate in this program. Thomas Gore called this program a “teeny-weeny bit of (*) socialism.” Tip O’Neill called this program the third rail of American politics, and George W. Bush’s plan to partially privatize it was opposed by the AARP. Large amounts of Baby Boomer retirees have caused this program to head towards insolvency by 2034. For 10 points, name this national pension system that (almost) everyone pays into.

ANSWER: **Social Security** <PO>

Bonuses:

1.

For 10 points each, name some things about characters or authors with similar names.

[10] This Canadian author of short stories like “The View From Castle Rock” featured a handicapped child playing piano beautifully in “Dance of the Happy Shades.”

ANSWER: Alice Ann **Munro**

[10] Another Alice Munro features in this novel, in which she and her sister Cora are escorted to Fort Henry by the title character and his friends, including David Gamut and Duncan Heyward.

ANSWER: *The **Last of the Mohicans**: A Narrative of 1757*

[10] Yet another Alice is the main character of some books by this author, including one where she falls down a rabbit hole and finds herself in Wonderland.

ANSWER: Lewis **Carroll** [accept Charles Lutwidge **Dodgson**] <RY>

2.

Herodotus wrote of fox-sized versions of this animal which guarded deposits of gold. For 10 points each:

[10] Name this animal that was used by one man to thread a spiral seashell.

ANSWER: **ant**

[10] After this king of the gods slept with Aegina (“uh-DJUY-nah”), her city was hit and depopulated by a plague. The king of that city asked this god, the father of Athena, to turn the ants on a tree into humans in order to repopulate his city, thus creating the Myrmidons.

ANSWER: **Zeus**

[10] Zeus also took the form of an ant to seduce Eurymedusa, whose father was this river god. This god lost a horn after wrestling with Heracles in the form of a bull.

ANSWER: **Achelous** <RY>

3.

In one election campaign, this man used the slogan “Four More Years of the Full Dinner Pail.” For 10 points each:

[10] Name this president who ran a “front-porch campaign” for the presidency in 1896 and 1900 against William Jennings Bryan. Theodore Roosevelt succeeded this man after his assassination.

ANSWER: William **McKinley**

[10] While shaking hands with the public, McKinley was assassinated by this Polish-American anarchist, who was later executed by electric chair for the murder.

ANSWER: Leon Frank **Czolgosz** [be lenient on pronunciation]

[10] McKinley was shot while attending this specific event in Buffalo. Buildings used in this event include the John Galen Howard-designed Electric Tower and the Temple of Music, the site of the assassination.

ANSWER: **Pan-American Exposition** [accept **1901 World’s Fair**, prompt on World’s Fair or Buffalo World’s Fair alone] <AZ>

4.

Ice, ice, baby. For 10 points each, answer some questions about the career of rapper Vanilla Ice.

[10] “Ice, Ice, Baby” has been criticized for plagiarizing the bass line to this song, a collaboration between David Bowie and Queen. This song claims that being in the title condition “pushes down on me, pushes down on you, and on us all.”

ANSWER: “**Under Pressure**”

[10] Vanilla Ice made a guest appearance in *Secret of the Ooze*, a film in this franchise. After performing a rap, Ice helps the main characters defeat the Shredder.

ANSWER: Teenage Mutant **Ninja Turtles** [accept **TMNT**]

[10] Vanilla Ice later hosted a TV show where he helped these people renovate their homes. A Discovery Channel show from 2012 is about these people's "mafia."

ANSWER: **Amish** <AJ>

5.

“Ves-pur” or “vuh-seh-per”? For 10 points each, answer some questions about the V-S-E-P-R theory.

[10] Molecules such as carbon dioxide have a linear geometry since there are two bonding domains and no lone pairs, which consist of two of these particles. Neutral atoms have an equal number of these particles and protons.

ANSWER: **electrons**

[10] Water and sulfur dioxide take this geometry due to there being two lone pairs and two attached atoms to the central atom. The bond angle in molecules with this geometry is less than 109.5 degrees.

ANSWER: **bent**

[10] Molecules with this shape include sulfur tetrafluoride and tellurium tetrafluoride. Molecules with this geometry contain 4 bonding atoms and one lone pair.

ANSWER: **seesaw** [accept **disphenoidal**] <BC>

6.

Let's talk about some loos! For 10 points each:

[10] At this battle, the Seventh Coalition put an end to the Hundred Days, after Blücher's Prussians and Wellington's British routed Napoleon for the last time and sent him into exile in St. Helena.

ANSWER: Battle of **Waterloo**

[10] During WWI, the Battle of Loos quickly bogged down into deadly trench warfare, resulting in a loss for British forces under John French and this other commander of the British Expeditionary Force. This man was nicknamed the “Butcher of the Somme.”

ANSWER: Douglas **Haig**(, 1st Earl Haig)

[10] The Peterloo massacre occurred in this city, where Engels wrote about the conditions of the industrial working class.

ANSWER: **Manchester** <PO>

7.

This mural was originally painted without the support of the New York City Parks Department, but due to its popularity, the creator did not face jail time. For 10 points each:

[10] Name this bright orange mural which was painted in 1986 on the side of a handball court on FDR Drive. It depicts a skull with crossed-out eyes underneath the title rhyming phrase.

ANSWER: **Crack is Wack**

[10] This artist painted the “crack is wack” mural. He was famous for painting stylized outlines of dancing figures in public spaces like subway stations.

ANSWER: Keith **Haring**

[10] Many of Haring’s later murals brought awareness to this disease, of which he eventually died. Other artists affected by this disease include Robert Mapplethorpe and Alexander McQueen.

ANSWER: **AIDS** [also accept **acquired immune deficiency syndrome**; prompt on **HIV**] <MS>

8.

This company saw its stock plummet after two of its planes crashed in quick succession. For 10 points each:

[10] Name this company whose 737 MAX planes were grounded and which recently received a federal bailout.

ANSWER: **Boeing**

[10] Maria (“muh-RYE-uh”) Cantwell, a senator from this state, questioned Boeing as ranking member of the Senate Commerce Committee. Boeing is headquartered in this state, and the Boeing Everett factory in this state is the largest building in the world.

ANSWER: **Washington**

[10] The first 737 MAX plane to crash was a flight on this airline between Jakarta and Pangkal Pinang. This is the largest low-cost Indonesian airline.

ANSWER: **Lion** Air [accept PT **Lion** Mentari Airlines] <BC>

9.

This poem states, “If ever wife was happy in a man, / Compare with me, ye women, if you can.” For 10 points each:

[10] Name this poem whose speaker tells the title subject “I prize thy love more than whole mines of gold, / Or all the riches that the East doth hold.”

ANSWER: “**To My Dear and Loving Husband**”

[10] Another poem by the same author of “To My Dear and Loving Husband” discusses one of these incidents and ends “The world no longer let me love, / My hope and treasure lies above.” One of these events destroys Thornfield Hall at the end of *Jane Eyre* and Guy Montag’s job is to create these events to destroy books in *Fahrenheit 451*.

ANSWER: house **fire** [accept obvious equivalents, like a house **burning down**; accept “Verses upon the **Burning of our House**, July 10th, 1666”]

[10] “To My Dear and Loving Husband” and “Verses upon the Burning of Our House” are both by this poet of the collection *The Tenth Muse Lately Sprung Up in America*.

ANSWER: Anne **Bradstreet** [accept Anne **Dudley**] <RY>

10.

Heparin and warfarin are examples of these drugs. For 10 points each:

[10] Name this class of drugs commonly known as blood thinners. Hirudin is a natural example of these drugs, and some rely on inhibiting thrombin and factor X (“ten”).

ANSWER: **anticoagulants**

[10] The anticoagulant Hirudin comes from these animals and is used to treat varicose veins. These animals were used for their blood-sucking properties in medieval medicine.

ANSWER: **leeches**

[10] Leeches are part of this invertebrate phylum, which contains segmented worms with parapodia for locomotion. This phylum is divided up into polychaetes (“POLLY-keets”), oligochaetes (“OH-lig-oh-keets”), and leech-like organisms, and it contains earthworms.

ANSWER: **annelids** [accept *Annelida*] <BC>

11.

Chrysander’s compilation of this work mixed its D major and G major sections. For 10 points each:

[10] Name this orchestral work originally composed for King George I whose premiere took place on the River Thames.

ANSWER: ***Water Music*** [accept **HWV 348-50**]

[10] *Water Music* is by this German-born composer whose other works include the *Messiah* oratorio, which contains the famous “Hallelujah” chorus.

ANSWER: George Frideric **Handel**

[10] Another piece that Handel composed for a king was this one, which he composed for the coronation for King George II and has been played at every British coronation since. It is the basis of the UEFA Champions League anthem.

ANSWER: ***Zadok the Priest*** <BC>

12.

A character in this work spends a day in the stocks after being captured by Captain Phoebus. For 10 points each:

[10] Name this work in which the title character starves to death in a mass grave after Esmeralda is hanged by the authorities.

ANSWER: *The **Hunchback of Notre Dame*** [accept ***Notre Dame de Paris***]

[10] *The Hunchback of Notre Dame* was written by this French author, who also created the rivalry between Javert and Jean Valjean in *Les Misérables*.

ANSWER: Victor Marie **Hugo**

[10] In Hugo’s novel *Toilers of the Sea*, Gilliat fights one of these marine animals. A Frank Norris novel titled after this animal depicts conflicts between Californian wheat growers and a railway company, and one of these animals named Grigori appears in *Gravity’s Rainbow*.

ANSWER: **octopus** <AJ>

13.

This term was first coined in the 1940s by Grace Hopper upon removing a moth from a computer relay which was preventing the computer from working properly. For 10 points each,

[10] Name this term which refers to correcting errors which cause unexpected functionality in a computer program.

ANSWER: **debugging** [prompt on **bug**]

[10] A debugger is often included in this type of software, which provides all the tools for programming in a given language in one place.

ANSWER: **I**ntegrated **D**evelopment **E**nvironment

[10] In contrast to using an IDE, some programmers prefer to edit computer code using this interface. Text editors like vim and emacs ("EE-max") take advantage of this interface, and it is also used to execute shell commands.

ANSWER: **t**erminal [accept **c**ommand **l**ine] <AM>

14.

Time to play the classic MS-DOS game *The Oregon Trail*, for 10 points each.

[10] When you reach the Snake River, you can trade 3 sets of clothing to a man of this ethnicity to help you cross the river. Sacagawea was a member of this ethnic group, which, although not the Paiute ("pie-YOOT"), practiced the ghost dance.

ANSWER: **S**hoshone [accept **S**hoshoni]

[10] Your final destination is the Willamette Valley, where you might help found this town, now the home of the University of Oregon and the third largest city in the state.

ANSWER: **E**ugene

[10] You won't reach the Willamette Valley if you die of this disease, a classic feature of *Oregon Trail*. This disease causes intestinal inflammation and bloody diarrhea.

ANSWER: **d**ysentery <AJ>

15.

The namesake of this entity reportedly demonstrated it by drawing it on a napkin in 1974. For 10 points each:

[10] Name this curve which relates tax rates and government revenue and posits that, past a certain point, increases in tax rates decrease government revenue.

ANSWER: **L**affer curve

[10] The Laffer curve was part of the justification that this president used to cut marginal tax rates in the Economic Recovery Tax Act of 1981. This president later undid some of those tax cuts in 1983.

ANSWER: Ronald **R**eagan

[10] Part of the reason for Reagan's focus on tax reform was this phenomenon that took place in the late 1970s under Jimmy Carter. This phenomenon is defined as a situation with high unemployment and inflation and low economic growth.

ANSWER: **s**tagflation <BC>

16.

Several characters are imprisoned in the Palace of Aljaferia in this opera. For 10 points each:

[10] Name this opera which includes a duel between Count di Luna and Manrico in Act 1. This work may be better known for beginning its second act with the Anvil Chorus.

ANSWER: *Il trovatore* [accept *The Troubadour*]

[10] *Il Trovatore* is a work by this Italian composer. Violetta Valéry dies of tuberculosis in the arms of Alfredo Germont in another opera by this composer.

ANSWER: Giuseppe **V**erdi

[10] This Verdi opera features the aria "Ritorna vincitor," in which the title Ethiopian princess is torn between her love for her father and her love for Radames, an Egyptian general. She later chooses to die in the arms of her lover.

ANSWER: *Aida* <AZ>

17.

This city was Nationalist China's wartime capital during the Sino-Japanese War. For 10 points each:

[10] Name this city, technically the largest city in the world. Yuzhong acts as its central business district.

ANSWER: **Chongqing** [accept **Chungking**]

[10] Chongqing was split off from this province in 1997. Dishes like Kung Pao chicken and twice-cooked pork make up this province's namesake cuisine, and *Rick and Morty* popularized a food product named after this province.

ANSWER: **Sichuan** [accept **Szechuan**]

[10] Chongqing was long part of the Ba confederacy, which was taken over by the Qin during this period. This period was ended by the Qin unification of China.

ANSWER: **Warring States** period [accept **Zhanguo** shidai] <AZ>

18.

Yahtzee! For 10 points each, name some things about dice games in literature:

[10] This French author wrote the poem "A Throw of the Dice Will Never Abolish Chance," which played with different fonts and spacing. He also inspired Claude Debussy with his poem "The Afternoon of a Faun."

ANSWER: Stéphane **Mallarmé** [accept Étienne **Mallarmé**]

[10] In Samuel Taylor Coleridge's "The Rime of the Ancient Mariner," two concepts, personified as a skeleton and a very pale woman, play a game of dice that leads to the mariner suffering from a curse for a week. Name either.

ANSWER: **Death** or Nightmare **Life-in-Death** [accept either or both]

[10] In this author's *The Return of the Native*, Venn and Wildeve play a game of dice with light from glow worms and with only one die. This author also wrote *Tess of the D'urbervilles*.

ANSWER: Thomas **Hardy** <RY>

19.

Snap, crackle, and pop are the fourth, fifth, and sixth derivatives of this vector quantity with respect to time. For 10 points each:

[10] Name this vector quantity. Velocity is the rate of change of this quantity.

ANSWER: **displacement** [accept **position**; do not accept or prompt on "distance"]

[10] The rate of change of velocity is this quantity, whose gravitational form on earth equals 9.81 meters per second squared.

ANSWER: **acceleration** [prompt on **a**]

[10] The rate of change of acceleration is this quantity, which is the third derivative of position with respect to time. The units for this quantity are meters per second cubed.

ANSWER: **jerk** <BC>

20.

Why are you walking in circles? For 10 points each:

[10] You could be this god, who ran circles around his parents in order to win a race with his brother Kartikeya.

ANSWER: **Ganesh** [accept **Ganapati** or **Vinayaka**]

[10] You could also be a Muslim and circling the Kaaba this many times while on a pilgrimage to Mecca. This number is two more than the number of times Muslims pray in a day.

ANSWER: **seven**

[10] You could also be Jewish, in which case, mazel tov! You're walking around your partner seven times before they perform this action during a marriage.

ANSWER: **stepping on a glass** [accept **breaking a glass** or equivalents] <AJ>

TB.

Thymine dimers form in this molecule when it is exposed to gamma radiation. For 10 points each:

[10] Name this primary genetic molecule with a double helix theorized by Watson and Crick.

ANSWER: **D**eoxyribonucleic **A**cid [accept **DNA**]

[10] This process that uses denaturation, annealing, and extension can produce copies of a DNA template millions or billions of times.

ANSWER: **P**olymerase **C**hain **R**eaction [accept **PCR**]

[10] A heat stable polymerase that is normally used in PCR is named after this organism, from which it was extracted. This organism is a heat-resistant bacteria, found in areas like the geysers at Yellowstone National Park.

ANSWER: **T**hermus **aquaticus** [Accept **Taq**] <DS>