

2020 Matt Cvijanovich Memorial Tournament:

Edited by Ganon Evans, Jacob O'Rourke, William Grossman, Karthik Prasad, Stefan Calin, Eric Chang, Alex Dzurick, and Sean Phillips

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Packet 7

1. In one painting, this figure clutches a yin-yang next to a skeleton in formal attire. In a painting inspired by a freak bus accident, a pelvis and snail float around this artist in a hospital bed. This artist's head appears on a deer's arrow-ridden body in one self portrait, and in another, this artist holds a letter from (*) Leon Trotsky. Two figures are connected by arteries to the other's heart in a double self-portrait by this artist. For 10 points, name this Mexican painter whose self-portraits frequently include monkeys and her signature thick eyebrows.

ANSWER: Frida **Kahlo** de Rivera [or Magdalena Carmen Frida **Kahlo** y Calderón; do not accept or prompt on "Rivera"] <Ganon Evans>/<ed. EC>

1. This poet contemplates "the frail duration of flower" in the poem "The Wild Honeysuckle." For 10 points each:

[10] Name this "Poet of the American Revolution" who described the "various horrors" of six weeks aboard the title vessel in "The British Prison Ship."

ANSWER: Philip **Freneau**

[10] A Freneau speaker sees "the hunter still the deer pursues" in one of these locations. A Robert Lowell speaker remembers a "drowned sailor" at his tombstone in one of these places.

ANSWER: **cemetery** [accept synonyms such as **graveyard** or **burial ground**; accept The Indian **Burying Ground** or The Quaker **Graveyard** in Nantucket]

[10] This poet described the "long Exodus of Death" of "Hebrews in their graves" in the poem "The Jewish Cemetery at Newport." An epic poem by this author begins as an Iroquois chieftain steps onto the shore of Gitche Gumee.

ANSWER: Henry Wadsworth **Longfellow** <Ganon Evans>/<ed. WG>

2. A text in this language claims that syllogisms rather than dialectics can interpret God. It's not Greek, but a medical text in this language interprets Galen of Pergamum's four humours as earth, fire, air, and water. *The Incoherence of the Philosophers* and *The Canon of Medicine* were written in this language. Speakers of this language referred to Aristotle as the "First Teacher," and were the first to translate Greek philosophers. Philosophers who used this language included Averroes, Avicenna, and al-Ghazali. For 10 points, name this language frequently used for Islamic law.

ANSWER: **Arabic** <Ganon Evans>

2. The “convolutional” type of these constructs are useful in image recognition. For 10 points each:
[10] Name this construct consisting of hidden layers of weighted nodes that fire signals in a manner similar to cells in the brain.

ANSWER: artificial **neural network**

[10] Neural networks adjust weights by performing this operation from multivariate calculus on the loss function called “[this function’s] descent.”

ANSWER: **gradient** [accept **gradient** descent]

[10] Neural networks are a type of construct employed in this general field of study regarding the development of computer systems that can learn and think similarly to humans.

ANSWER: **artificial intelligence** [or **AI**; accept **machine learning**] <Lalit Maharjan>/<ed. SC>

3. The Funj Sultanate was located in this country, which was home to the cities of Meroë and Kush. In this country, the forces of Muhammad Ahmad were besieged by Charles “Chinese” Gordon in the Mahdist Wars. Under Omar al-Bashir, Janjaweed militias carried out a genocide in this country’s region of (*) Darfur. The ancient region of Nubia was located in this country. The newest country in the world was created when this country’s southern portion seceded in 2011. For 10 points, identify this country with the capital city Khartoum.

ANSWER: **Sudan** <Shohom Chakraborty>/<ed. GE>

3. These people were based around the mountain fortress of Alamut Castle in modern Iran and received orders from the “Old Man of the Mountain,” Rashid al-Din Sinan. For 10 points each:

[10] Name these people, a sect of the Nizari Ismailis founded by Hassan-i Sabbah. While disguised as a Sufi mystic, one of these people stabbed the Seljuq vizier Nizam al-Mulk.

ANSWER: The Order of **Assassins** [accept **Hashashins**]

[10] Raymond II, Count of Tripoli was the first Christian killed by the Assassins during this series of Holy Wars in which European knights attempted to retake the Holy Land.

ANSWER: **Crusades** [accept specific answers like the First **Crusade**]

[10] The Order of the Assassins was destroyed during the invasion of the Khwarazmian [“*Kwar-az-mee-an*”] Dynasty by this empire. The Il-Khanate and Golden Horde were successor states to this empire after its founder’s 1227 death.

ANSWER: **Mongol** Empire <Shohom Chakraborty>/<ed. GE>

4. These devices can be used to induce coagulation in diabetes-induced retinopathy or macular edema. Skin resurfacing can be performed using one of these devices powered by carbon dioxide. Patricia Bath developed a procedure that used these devices to remove (*) cataracts. These devices are used to reshape the cornea in a procedure known as LASIK [“LAY-sick”]. These devices vaporize tissue with high precision, which can reduce patient discomfort and help with healing. For 10 points, name these devices that perform surgery without a scalpel by using amplified light through stimulated emission.

ANSWER: **lasers** [or **light amplification by stimulated emission of radiation** before mention] <Lalit Maharjan>/<ed. SC>

4. In September 2020, Jeanine Áñez dropped out of a presidential race to prevent vote splitting among candidates opposed to this man's Movement for Socialism party. For 10 points each:

[10] Name this first indigenous president of Bolivia, who resigned in October 2019 amidst protests that his party had rigged an election against Carlos Mesa. He won re-election in 2020.

ANSWER: Evo **Morales** [or Juan Evo **Morales** Ayma]

[10] Morales made several attempts to override this provision of the Bolivian constitution, calling it a "human rights violation" and appealing to an election tribunal for permission to run in 2019. "Lifetime appointments" to the U.S. Supreme Court circumvents these provisions.

ANSWER: presidential **term limits** [accept being **limited** to **two terms** in office]

[10] Morales spent much of his early career as a union activist for growers of this crop. He frequently refused payments from the U.S. to eradicate this crop during the "War on Drugs."

ANSWER: **coca** leaves <Ganon Evans>/<ed. AD>

5. This director hired trained archers to fire real arrows around the lead actor of his Macbeth adaptation *Throne of Blood*. Sergio Leone's *A Fistful of Dollars* is an adapted screenplay of a film by this director in which a nameless warrior betrays two rival gangs; that film stars this director's frequent collaborator (*) Toshiro Mifune and is titled *Yojimbo*. In one of this director's films adapted from a Ryūnosuke Akutagawa short story, a woodcutter describes to a priest the conflicting accounts of a samurai's death. For 10 points, name this Japanese director of *Rashomon* and *Seven Samurai*.

ANSWER: Akira **Kurosawa** <Ganon Evans>/<ed. EC>

5. The Sacred Band were 150 pairs of gay lovers who were elite warriors from the city of Thebes. Answer the following about them, for 10 points each:

[10] The Sacred Band disbanded after this battle in the Boeotian ["bee-oh-shun"] War. A namesake lion of this battle honors the Sacred Band.

ANSWER: Battle of **Chaeronea** [accept the Lion of **Chaeronea**]

[10] During the Boeotian War, the Sacred Band defeated this city-state's forces at the Battle of Leuctra. This militaristic rival of Athens dominated the Peloponnesian peninsula and managed slaves called helots.

ANSWER: **Sparta** [accept **Laocemedon**]

[10] This Macedonian ruler defeated the Sacred Band at Chaeronea ["kai-ron-ay-uh"]. This ruler introduced the *sarissa* spear, was assassinated by his gay lover Pausanias, and is the father of Alexander the Great.

ANSWER: **Philip II** of Macedon [prompt on just **Philip**] <Shohom Chakraborty>/<ed. GE>

6. It's not the Twins, but this team won back-to-back World Series on the strength of players like Paul Molitor and Rickey Henderson, but its most famous player was immortalized by the call "Touch 'em all Joe! You'll never hit a bigger home run in your life!" That call occurred when this team's player (*) Joe Carter hit a game winner off of Phillies closer Mitch Williams in Game 6 of the 1993 World Series. Due to COVID-19 concerns, this team was forced to play its home games in Buffalo. In the 2015 playoffs, Jose Bautista bat flipped for this team. For 10 points, name this only MLB team that calls Canada home.

ANSWER: **Toronto** Blue **Jays** [accept either underlined] <Carson Melinder>/<ed. GE>

6. *Description Acceptable*. After performing this action to another character, the protagonist of a medieval poem wins a green and gold axe and bow of holly. For 10 points each:

[10] Name this violent action, which a character miraculously survives as a part of a “Christmas game” and tells another to meet him at the Green Chapel in a year.

ANSWER: **decapitation** [accept descriptions such as being **beheaded** or **losing one’s head**]

[10] This nephew of King Arthur decapitates the Green Knight and later learns the warrior is the cursed Lord Bertilak in a medieval epic written by the Pearl Poet.

ANSWER: Sir **Gawain** [accept **Gwalchmei** or **Gualgvanus**]

[10] During a feast, the Green Knight’s decapitated head speaks to Gawain and this Arthurian queen. This woman’s dowry was the Round Table itself, and she carried out a lengthy affair with Sir Lancelot.

ANSWER: **Guinevere** [or **Gwenhwyfar**] <Ganon Evans>/<ed. WG>

7. **The opposite of this concept comes in forms including *parusa* and *mithya*, which can refer to improper speech or deceit. A wheel representing this concept is a symbol of an ideal king in Buddhism. Texts centered around this concept discuss how one fits into a community and support the creation of the caste system. Other conversations on this concept include one in the (*) *Bhagavad Gita*, contemplating the actions of a warrior caste when fighting family.** For 10 points, name this universal law from which order arises, a concept of duty central to many religions from the Indian subcontinent.

ANSWER: **Dharma** <Vishal Kanigicherla>/<ed. KP>

7. In this country, men dressed as the Devil jump over babies in a celebration known as El Colacho. For 10 points each:

[10] Name this country in which El Colacho is celebrated on the Catholic feast of Corpus Christi. In August, one town in this country celebrates La Tomatina by throwing tomatoes at one another.

ANSWER: **Spain** [or **España**]

[10] In this Spanish city, participants dressed in white and wearing red scarves attempt to outrun bulls through this city’s streets. This city is among the largest in the Spanish Basque Country.

ANSWER: **Pamplona**

[10] Spanish celebrators of this holiday stuff their mouth with twelve grapes. In the United States, this holiday is celebrated by a ball drop in New York’s Times Square.

ANSWER: **New Year’s** Day [accept any answer indicating a **New Year’s** celebration; prompt on **January 1st**] <Ganon Evans>/<ed. AD>

8. **One of these objects is destroyed by the “dark secret love” of an “invisible worm” in a William Blake poem titled for a “Sick” one of these objects. A poem about one of these objects ends “who would inhabit/This bleak world alone?” alone after Thomas Moore encounters the last of these objects “of Summer.” A “bonnie lass” is compared to one of these objects (*) “like the melody/That’s played sweetly in tune.” Robert Herrick’s “To the Virgins, to Make Much of Time” opens by asking women to “gather” the buds of these flowers “while ye may.” Robert Burns compares his “luve” to, for 10 points, what “red, red” flower?**

ANSWER: **roses** [accept **rose**buds; accept “The Last **Rose** of Summer,” “The Sick **Rose**,” or “A Red, Red, **Rose**,” accept **rosa** rubiginosa]<Ganon Evans>/<ed. WG>

8. When this god became angry at some mortals, he sent down Sekhmet as punishment but had to trick her into drinking beer to stop her from destroying all of humanity. For 10 points each:

[10] Name this Egyptian deity who drives his solar barge across the sky each day.

ANSWER: **Ra** [or **Re**]

[10] Sekhmet was closely associated with Bastet and this other Egyptian goddess, who represented joy, celebration, and love. This goddess was commonly represented as a cow symbolizing maternity.

ANSWER: **Hathor**

[10] Sekhmet was depicted with the head of one of these animals. The Egyptian god of war Maahes was also seen with the head of this animal.

ANSWER: **lioness** [or **lion**; do NOT prompt or accept “cat”] <Aditya Sivakumar>/<ed. EC>

9. If n is a non square-free number, the Möbius function gives this value. The Dirac-delta function is characterized by a large upward spike at this value. The line integral of a closed loop in a conservative vector field equals this value. The sine and cosine function oscillate around (*) this value. At a point of inflection, the second derivative has this value, while the first derivative either doesn't exist or equals this value at a critical point. The function “1-over-x” has horizontal and vertical asymptotes at this value. For 10 points, give this number that one cannot divide by.

ANSWER: **zero** <Lalit Maharjan>/<ed. SC>

9. Soprano, mezzo-soprano, alto, contralto, and tenor voices are all notated on this clef, with tenor voices performing an octave below what's written. For 10 points each:

[10] Name this most commonly used clef. The symbol for this clef encircles the G above middle C on a staff.

ANSWER: **treble** clef [prompt on a G-clef]

[10] This instrument is written with a treble clef but is performed an octave below what is written. Joaquin Rodrigo's *Concierto de Aranjuez* is a composition for this fretted, six-stringed instrument.

ANSWER: classical **guitar**

[10] A clef primarily used for flutes but initially written for violins looks identical to the treble clef and was developed by composers in this country. A Baroque composer from this country titles a six-part “tombeau” by Maurice Ravel.

ANSWER: **France** [or the **French** Republic] <Ganon Evans>/<ed. KP>

10. A “Treaty of Relations” with this modern day country leased an area in its south for US military use. The term “concentration camp” originated from Butcher Weyler's forced movement of people across this country. American troops left this country under the Platt Amendment. William Randolph Hearst and Joseph Pulitzer's “yellow journalism” propagandized the sinking of the USS (*) Maine off this country's coast. Teddy Roosevelt and his Rough Riders charged up San Juan Hill in this country. The Spanish-American War involved fighting in, for 10 points, what island country south of Florida?

ANSWER: Republic of **Cuba** <Lalit Maharjan>/<ed. GE>

10. This type of reaction is promoted by hydrides such as LAH. For 10 points each:

[10] An example of this process is the reaction of an acid chloride to form an aldehyde. The Wolff-Kishner reaction is a base catalyzed version of this type of reaction.

ANSWER: **reduction**

[10] A milder alternative to the Wolff-Kishner reduction, the Mozingo reduction, involves a di-*thio*-acetal intermediate which contains two of this element.

ANSWER: **sulfur** [accept **S**]

[10] Under normal conditions, sulfur forms rings with this many atoms, adopting a crown shape. Hypervalent sulfur violates the octet rule by having more than this many electrons in its valence shell.

ANSWER: **eight** <Michael Eng>/<ed. SC>

11. One work in this genre begins with an immediate solo entrance of [read slowly] B [pause] B B G E E B, the same melody in E minor that gave its composer no peace. A B-A-C-H motif appears in one of these pieces by Alban Berg. Another one of these works begins with four timpani beats and was popularized by a 12-year old (*) Joseph Joachim. Brahms, Beethoven, and Tchaikovsky all composed their only works in this genre in D major, and the most famous work in this genre is arguably Mendelssohn's in E minor. For 10 points, name these compositions for string soloist and orchestra.

ANSWER: **violin concerto** [prompt on concerto alone] <Karthik Prasad>

11. Answer some questions about the four “greats” of Chilean poetry. For 10 points each:

[10] This man is considered the national poet of Chile. He wrote *Twenty Love Poems and a Song of Despair* and is also known for his signature green ink.

ANSWER: Pablo **Neruda** [or Ricardo Eliécer Neftalí **Reyes** Basoalto]

[10] Vicente Huidobro [“wee-DOH-bro”] founded *Creacionismo* [“crea-cionis-mo”], a literary movement described by this French term. This type of movement describes experimental or unorthodox writing that usually receives initial unacceptability.

ANSWER: **avant-garde** [prompt on vanguard or fore-guard]

[10] This other member of the four greats was the first Latin American author to receive a Nobel Prize in Literature for her “Sonnets of Death” and *Desolación*.

ANSWER: Gabriela **Mistral** [or Lucila Godoy **Alcayaga**] <Eric Chang>/<ed. WG>

12. Rock art created by these people in the Dampier Archipelago was found to be twice as old as the Great Pyramids of Giza. These people, who are closely related to the Torres Strait Islanders, hold dance rituals called *corroboree* in which they reenact events from the (*) Dreamtime. These people named oxbow lakes *billabongs*, and a sandstone rock formation holy to these people is known both as Ayers Rock and Uluru. A curved throwing stick developed by these people for hunting is the boomerang. For 10 points, name these native peoples of Australia.

ANSWER: Australian **Aborigines** [accept word forms such as **Aboriginal** Australians; prompt on indigineous people of Australia or other descriptions not mentioning **Aborigines**] <Ganon Evans>/<ed. AD>

12. One critic said of it “Oh God my eyes!” For 10 points each, answer the following about the film adaptation of *Cats*:

[10] This actress eats cockroaches and takes off a fur suit to reveal more fur beneath in a horrendous dance routine as Jenny Any Dots. She starred in *Isn't It Romantic* and *Pitch Perfect* and none of you are still listening after I said she ate cockroaches, right?

ANSWER: Rebel **Wilson**

[10] This late-night host appeared as Bustopher Jones, and dress up like a cat with Rebel Wilson to mock the movie at the Academy Awards. This host's most popular bit is Carpool Karaoke.

ANSWER: James **Cordon**

[10] Taylor Swift also appeared in *Cats* too and wrote this Golden Globe-nominated song about a day for it. She rhymes the phrase “all that I wanted/was to be wanted.” Byron couldn't have said it better.

ANSWER “**Beautiful Ghosts**” <Sean Phillips>/<GE>

13. Susskind and Maldacena proposed the statement $ER=EPR$ [“*E-R equals E-P-R*”] to solve the AMPS firewall paradox surrounding these entities. Energy radiated from these entities implies an apparent loss of information. These entities can be entirely classified using charge, mass, and angular momentum according to the (*) no-hair theorem. Any object with a radius under “ $2-G-M$ over c -squared” will transform into one of these entities. The center of the Milky Way is home to a supermassive one of these entities. For 10 points, name these astronomical objects from which not even light can escape from.

ANSWER: **black holes** [accept supermassive **black holes**; prompt on “event horizon”] <Lalit Maharjan>/<ed. SC>

13. Anitpater of Sidon wrote a lyric poem in which a statue of this goddess questions how her sculptor saw her naked. For 10 points each:

[10] Name this goddess, an armless statue of which believed to be by Alexandros of Antioch was found on the island of Milos.

ANSWER: **Aphrodite** [accept **Venus** or **Venus de Milo**]

[10] This ancient Greek sculptor's *Aphrodite of Knidos* [“*NIGH-dos*”] was the first standing female nude statue. A missing arm supposedly holding grapes once hovered above this artist's statue *Hermes Bearing the Infant Dionysus*.

ANSWER: **Praxiteles**

[10] Praxiteles created a fertility statue of Artemis in the Parthenon adjacent to a massive ivory statue of Athena holding Nike by this sculptor. This sculptor was patronized by Pericles and had earlier carved the Statue of Zeus at Olympia.

ANSWER: **Pheidias** [or **Phidias**] <Ganon Evans>/<ed. EC>

14. An empire named for this city fell to Cyrus the Great after the Battle of Opis. A structure in this city resembled Queen Amytis' Median homeland. Following the death of the Neo-Assyrian king Ashurbanipal, this city's king Nabopolassar forged an empire centered at this city. King (*) Nebuchadnezzar II [“*neb-oo-kud-nezz-arr*”] was said to have built an Ancient Wonder in this city which featured water pumps over several terraces of trees. A law code established in this city included the principle of “an eye for an eye.” The likely fictional “hanging gardens” were in, for 10 points, what Mesopotamian city once ruled by King Hammurabi?

ANSWER: **Babylon** [accept Neo-**Babylonian** empire] <Lalit Maharjan>/<ed. GE>

14. The stretch rule states that this quantity is unchanged in a rigid object when it is stretched parallel to its principal axis, so long as the mass distribution is constant. For 10 points each:

[10] Name this quantity, equal to mass times radius from the axis of rotation squared. It is the rotational analog of mass.

ANSWER: **moment of inertia**

[10] Applying the rotational analogs to Newton's Second Law states that the moment of inertia times the angular acceleration equals torque. Torque is the rotational analog of this quantity.

ANSWER: **force**

[10] The total moment of inertia of two objects in a system is their sum if those objects have this locational relationship to each other according to a namesake theorem.

ANSWER: **perpendicular** axis [accept word forms such as they're **perpendicular**; accept **orthogonal** or **orthogonality**; accept **normal** or **normality**] <Shohom Chakraborty>/<Ed. SC>

15. An old woman describes to this character and his lover how her left buttock was removed by Russians. This character encounters his mentor teaching “experimenting physics” to a maid in the garden of Baron Thunder-ten-tronckh. After sending his valet (*) Cacambo to Buenos Aires, this character encounters Eldorado. This character survives the 1755 Lisbon Earthquake and is reunited with his childhood love Cunégonde. This character discovers his Leibniz-inspired mentor afflicted with syphilis. Dr. Pangloss tutors, for 10 points, what title character of a satirical novel by Voltaire?

ANSWER: **Candide** <Ganon Evans>/<ed. WG>

15. This woman and Eleanor Roosevelt developed She-She-She camps as an offshoot of the all-male Civilian Conservation Corps. For 10 points each:

[10] Name this woman, the longest serving Secretary of Labor in US history.

ANSWER: Frances **Perkins**

[10] Perkins served as the Secretary of Labor under this president, under which she oversaw parts of this president's New Deal which fought the Great Depression.

ANSWER: **Franklin Delano Roosevelt** [accept **FDR**; prompt on Roosevelt alone]

[10] Early in her career, Perkins was appointed Head of the Committee on Public Safety that investigated this industrial fire. Locked stairways caused the deaths of 146 garment workers in this fire.

ANSWER: **Triangle** Shirtwaist Factory Fire [accept synonyms for fire or synonyms of tragedy; accept the **Triangle** Shirtwaist Company Fire; or **Triangle** Waist Company Fire; prompt on answers mentioning **Shirtwaist** but not **Triangle**] <Shohom Chakraborty>/<ed. GE>

Note to players: description NOT acceptable, specific term required

16. In a play titled for this action, Miller punches Mr. Fayette after being asked to spy on Dr. Brenner before a group of taxi drivers chant “STRIKE!” after a union rep dies; that play is by Clifford Odets and is titled “[this action] for Lefty.” Another play titled for this action opens with a character removing his boot near a leafless tree. That play titled for this action features (*) Lucky delivering a soliloquy with Pozzo on a leash. A boy announces a figure “will not come this evening” to two men performing this action, Vladimir and Estragon. For 10 points, name this action performed in a Samuel Beckett play, “for Godot.”

ANSWER: **waiting** [accept **Waiting** for Lefty or **Waiting** for Godot] <Ganon Evans>/<ed. WG>

16. James Q. Wilson and George Kelling’s broken windows theory connects social disorder in a neighborhood to higher instances of this activity. For 10 points each:

[10] Name this activity explained through strain theory. “White collar” forms of this activity include embezzlement and tax evasion.

ANSWER: **crime** [accept word forms such as committing a **crime**; accept **deviance**; accept **breaking the law** or other synonyms; antiprompt on specific forms of crime such as **murder**]

[10] Strain theory explains crime as a “rebellious” response to social stressors, contrasted with this phenomenon in which an individual’s behavior follows social norms.

ANSWER: **conformity** [accept **conforming**]

[10] This Columbia sociologist first outlined strain theory. This author of *Social Theory and Social Structure* coined the terms “role model” and “self-fulfilling prophecy.”

ANSWER: Robert King **Merton** [or Meyer Robert **Schkolnick**] <Ganon Evans>/<ed. AD>

17. The Wigner-Seitz cell can describe these structures in reciprocal space. These structures can contain Frenkel defects if an atom occupies an interstitial site and creates a valency. Miller indices denote planes in Bravais lattices that describe these structures. The highest packing efficiency is 74% for (*) hexagonal close packed examples of these structures. X-ray diffraction determines the structure of these materials and they can form around a nucleation seed. Amorphous solids are the opposite of, for 10 points, what materials whose atoms are arranged in a highly ordered lattice?

ANSWER: **crystals** [or **crystal** lattices; prompt on “**lattices**” before mention] <Michael Eng>/<ed. SC>

17. In Orhan Pamuk’s novel *Snow*, Zaim stages his own suicide by having Kadife shoot him with an allegedly “fake” gun during a performance of this play. For 10 points each:

[10] Name this Thomas Kyd play in which the ghost of Don Andrea and the spirit of Revenge witness the noble Hieronimo brutally murder Lorenzo, Balthazar, and other members of a European royal court.

ANSWER: *The **Spanish Tragedy**, or Hieronimo is Mad Again*

[10] Hieronimo asks “How should we term your dealings to be just, if you unjustly deal with those that in your justice trust?” during one of these speeches in which a lone character on stage relays their emotions and thoughts to the audience.

ANSWER: **soliloquy** [prompt on **monologue**]

[10] Captain Face disguises himself as a Spaniard using “Hieronimo's cloak and hat” in this author’s play *The Alchemist*. The title Venetian trickster of this author’s play *Volpone* leaves his will to the servant Mosca instead of Voltore, Corbaccio, or Corvino.

ANSWER: Ben **Jonson** <Ganon Evans>/<ed. WG>

18. This man annexed the region of Gascony after putting down the Aquitaine rebellion. 4,500 Saxons were executed on orders from this king in the Massacre of Verden. As sole ruler following his brother's death, this king enforced the "donation" given to his father (*) Pepin the Short, which gave him control of the Lombards. The Carolingian dynasty declined following this king's death, although it had previously reached its peak when Pope Leo III crowned him "emperor of the Romans in the West." For 10 points, name this Frankish king who was the first Holy Roman Emperor.

ANSWER: **Charlemagne** [or **Charles the Great**; or **Carolus Magnus**; or **Karl der Grosse**; or **Charles I**; or **Karl I**; prompt on partial answers] <Lalit Maharjan>/<ed. GE>

18. This holiday lasts from the 15th to the 23rd of Tishrei, and during it, participants wave the "four species." For 10 points each:

[10] Name this Jewish festival of tabernacles. This holiday is named for the thatch huts that practitioners build and reside in for the week.

ANSWER: **Sukkot** [or **Sukkoth**; or **Sucloth**; or **Sukkos**; or **Succot**; or **Succos**; or **Sukka** accept Festival of **Booths** or Festival of **Ingathering**; prompt on Festival of **Tabernacles**]

[10] Sukkot commemorates the wandering of the Israelites for this many years after their deliverance from Egypt. Noah and his family survive this many days and nights on the Ark during the Great Flood.

ANSWER: **40**

[10] Participants in Sukkot practice harvest rituals outlined in this third book of the Torah. Chapters 17-26 of this book consists of the Holiness Code, which outlined practice for the Tabernacle established in Exodus.

ANSWER: **Leviticus** <Ganon Evans>/<ed. KP>

19. This author described a girl who cries after failing to recite a poem during Easter Sunday and is comforted by her friend Bailey. A poem by this author opens with "A Rock, A River, A Tree" and declares "You may stand upon me/But do not hide your face." That poem was recited by this author at Bill Clinton's inauguration and is (*) "On the Pulse of Morning." This author escaped a period of reclusion after hearing Mrs. Bertha Flowers recite the opening of *A Tale of Two Cities* as described in an autobiographical novel inspired by her childhood in Stamps, Arkansas. For 10 points, name this American author of *I Know Why the Caged Bird Sings*.

ANSWER: Maya **Angelou** [or Marguerite Ann **Johnson**] <Eric Chang/GE>/<ed. WG>

19. Emmanuelle Charpentier and Jennifer Doudna received the 2020 Nobel Prize in Chemistry for their work on this technology. For 10 points each:

[10] Name this adaptive prokaryotic immunity that uses repeated palindromic DNA sequences and viral DNA spacers to fight bacteriophage infection. This technology uses Cas9.

ANSWER: **CRISPR-Cas9** [accept **clustered regularly interspaced short palindromic repeats-Cas9**]

[10] The protospacer adjacent motif is used as a signal for Cas9 to distinguish viral DNA from the CRISPR sequence. The main protospacer sequence contains this purine nucleotide symbolized G.

ANSWER: **guanine**

[10] MIT scientists have injected CRISPR directly into hair cells in the inner portion of this body part in an attempt to reverse gradual hearing loss, which is typically done via cochlear implants.

ANSWER: **ears** <Stefan Calin>/<ed. SC>

20. This figure was given credit for the union of villages into a “dwelling together” of city-states called synoikismos [“see-noi-kees-mos”]. During a mission to Marathon, this man was sheltered by an old woman named Hecale, who died before he returned. This hero traveled to the underworld with his friend (*) Pirithous but became stuck to a rock until Hercules freed him. After finding his father Aegeus’ sword and sandals under a rock, this hero traveled back to Athens and was given a ball of string by Ariadne to help guide him through the Labyrinth. For 10 points, name this Greek hero that killed the Minotaur.

ANSWER: **Theseus** <Aditya Sivakumar>/<ed. EC>

20. One of these events began after a stone was thrown at Jan Želivský’s Hussite parade. For ten points each:

[10] Name these events in which people were thrown out of windows in a Bohemian city. Two Catholic regents miraculously survived the third of these events in 1618 by landing in a dung pile.

ANSWER: **Defenestrations of Prague**

[10] The Third Defenestration of Prague led to the mobilization of Ferdinand II’s armies, who were loyal to this Austrian family that controlled the Holy Roman Empire and Spain. This family’s namesake “lip” was a genetic deformity caused by mass inbreeding.

ANSWER: **Hapsburgs** [or the **Habsburgs**; accept the **Hapsburg** lip]

[10] A Bohemian king of this name legendarily died of a heart attack hearing news of the First Defenestration of Prague. The first king of this name was executed by his brother Boleslaus the Cruel and became the Patron Saint of Czechia.

ANSWER: **Wenceslaus** [accept **Wenceslaus** IV or Saint **Wenceslaus**; accept **Wenceslas**; accept **Václav**] <Shohom Chakraborty>/<ed. GE>