

2022-23 Solon-Adjacent Novice Set (SANDS)

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Packet 6

1. **A one percent change in this quantity causes a two percent change in GDP, according to Okun's Law. An inverse relationship between inflation and this quantity is depicted in the Phillips Curve. The "frictional" and "structural" types of this concept add up to its (*) "natural rate."** Discouraged and retired workers are not included in the calculation of this quantity. For 10 points, what quantity describes the number of people who cannot find jobs.

ANSWER: **unemployment** rate <Social Science–Sareddy>

In some myths, this figure gives his son Deucalion the knowledge to survive a world-ending flood. For 10 points each:

[M] Name this Titan who stole fire from the gods to gift to humanity, resulting in a punishment where his liver is eaten and regenerates everyday in an eternal cycle.

ANSWER: **Prometheus**

[H] The creature that ate Prometheus's liver each day was one of these creatures. Zeus took the form of this creature to abduct Ganymede.

ANSWER: **eagle** [prompt on bird]

[E] Prometheus was chained to one of these geographical features in the Caucasus. The Greek gods lived on one of these geographical features called Olympus.

ANSWER: **mountain** <Mythology–Kapadia>

2. **The Hays Code was an early set of guidelines for censoring these works. The Palm d'Or is an award given to these works at an annual festival held in Cannes. The Sundance Festival highlights the "indie" variety of these works. The MPAA sets (*) ratings for these works, which include NC-17, R, and PG-13.** For 10 points, what works of media are shown in namesake theaters by AMC and Cinemark?

ANSWER: **movies** [or **films** or **motion pictures**] <Other Academic/Miscellaneous–Kapadia>

The split between "Old Lights" and "New Lights" occurred during this period. For 10 points each:

[M] Evangelists like George Whitfield and Jonathan Edwards were active during what period of intense religious fervor in early colonial America?

ANSWER: **First Great Awakening** [prompt on Great Awakening]

[E] During the First Great Awakening, Whitfield and Edwards traveled around to deliver fiery examples of these religious speeches that address moral and Biblical topics.

ANSWER: **sermons**

[H] Edwards's most notable sermon analogized these people to a spider hanging over the fiery pit of Hell, and was titled for "[these people] in the Hands of an Angry God."

ANSWER: **sinners** <American History–Kapadia>

3. **Since he believed that this event was divine punishment, aid to victims of this event was reduced by Charles Trevelyan. Victims of this event attempted to escape it by boarding "coffin ships." This event was partially ended when Robert Peel repealed the (*) Corn Laws.** For 10 points, what period of starvation devastated an island off the coast of Britain due to the blight of a namesake staple crop?

ANSWER: Irish **Potato Famine** [or **Great Hunger** or **Great Famine** or **Irish Famine**] <European History–Rao>

An amphitheater at the natural entrance to Carlsbad one of these locations in New Mexico allows visitors to watch bat swarms emerge during certain months. For 10 points each:

[E] Name these underground locations, often formed by erosion, where stalactites and stalagmites can be found.

ANSWER: **caves** [or **caverns**]

[M] This state's Wind Cave was the first cave in the world to be designated a national park. The Black Hills are in this Great Plains state, also home to Mount Rushmore.

ANSWER: **South Dakota**

[H] This cave system in Kentucky is the longest known one in the world. This cave system is named for a certain large extinct mammal, though no fossils of it have been found in the cave.

ANSWER: **Mammoth** Cave <Geography–Kapadia>

4. Pierre L'Enfant created the layout of this city's streets and landmarks. A memorial consisting of two engraved black granite walls was designed for this city by Maya Lin. Daniel Chester French created a marble statue of a seated (*) president for display in this city, which sits at the opposite end of the National Mall from a large white obelisk. For 10 points, name this city home to the Washington Monument and the Lincoln Memorial.

ANSWER: **Washington**, D.C. [accept **D.C.**] <Other Fine Arts–Maiorana>

A spot in Carlos Danieri's cellar shows every point in the universe in this author's story "The Aleph." For 10 points each:

[M] Name this blind Argentinian author, who included "The Garden of Forking Paths" in his collection *Ficciones*.

ANSWER: Jorge Luis **Borges**

[H] A Wycliffe Bible is traded for one of these objects "of sand" in another Borges story. Purifiers destroy these objects in a Borges story where millions of them are stored in hexagonal rooms.

ANSWER: **books**

[E] It's not a tower, but that story by Borges is titled after [one of these places] of Babel. These buildings, which often have reading rooms, are full of books to borrow.

ANSWER: **libraries** [or **library**; accept "The **Library of Babel**"] <World Literature–Ganguli>

5. This man's Vice President Schuyler Colfax resigned after a scandal involving a fraudulent company working on the Union Pacific Railroad. This president's private secretary, Orville Babcock, was implicated in a scandal involving unpaid liquor taxes. The (*) Credit Mobilier and Whisky Ring scandals tainted the presidency of, for 10 points, what 18th President, a former Union Army general?

ANSWER: Ulysses **Grant** <American History–Kapadia>

At standard temperature and pressure, only two elements are liquid. For 10 points each:

[E] Name this metal, which is liquid at room temperature. Also known as quicksilver, this metal is symbolized Hg.

ANSWER: **Mercury**

[H] Bromine, the only other element that is liquid at STP, is in this group of elements. This group features the element with the highest electronegativity.

ANSWER: **Halogens**

[M] Halogens typically feature seven of these electrons, which are in the outer shell of an atom.

ANSWER: **valence** electrons <Chemistry–Chae>

6. For an object of uniform density, the centroid coincides with the center of this quantity. Einstein's equivalence principle relates the gravitational and inertial types of this quantity. This quantity multiplied by velocity gives linear (*) momentum, while this quantity multiplied by little g gives weight. For 10 points, name this quantity that represents the amount of matter in an object, which is measured in kilograms.

ANSWER: **mass** <Physics–Sivaram>

The 2028 Olympics will be the first to feature Ultimate, a sport centered on the use of this object. For 10 points each:

[H] Name this plastic object, whose official name is trademarked by the toy company Wham-O. The presence of a lip on this object's edge allows it to glide.

ANSWER: **Frisbee** [accept **flying disc** or **disc**]

[E] Families often use Frisbees when playing with these pet animals. Common breeds of these animals include the beagle, poodle, and German shepherd.

ANSWER: **dogs**

[M] Frisbees are also used in a variant of this sport called "disc [this sport]". Lower scores indicate better play in this sport whose tours are organized by PGA Tour.

ANSWER: **golf** [accept disc **golf**] <Other Academic–Sareddy>

7. This god uses a drum called the damaru to regulate the universe in his dancing Nataraja form. This god, who obtained a blue throat after swallowing the poison Halahala, rides the white bull Nandi and resides on Mount Kailash. This god often depicted with a (*) third eye on his forehead is the consort of Parvati and the father of the elephant-headed Ganesha. For 10 points, name this Hindu destroyer god.

ANSWER: **Shiva** <Mythology–Ganguli>

This composer collaborated with Martha Graham on his most famous ballet. For 10 points each:

[M] Name this 20th-century American composer of the music for *Appalachian Spring* and *Billy the Kid*.

ANSWER: Aaron **Copland**

[E] In one piece, Copland depicted a dance hall in this country that he visited with Carlos Chávez. Genres of music from this country include Jalisco and Mariachi.

ANSWER: **Mexico**

[H] This other ballet composed by Copland features sections such as "Hoe-Down" and "Buckaroo Holiday".

ANSWER: **Rodeo** <Auditory Fine Arts–Maiorana>

8. While visiting a children's shelter, one member of this family wore a green Zara jacket with the message "I really don't care, do you?" On August 8, 2022, the FBI raided the house of another member of this family to obtain classified documents removed from one office. (*) Barron and Ivanka are children of a member of this family, who once tweeted "covfefe." For 10 points, name this family that includes Melania and the 45th U.S. president, Donald.

ANSWER: **Trump** family <Current Events–Ganguli>

One member of this family, who is gifted a piano by Mr. Laurence, dies of scarlet fever. For 10 points each:

[H] Name this fictional family that includes Beth, Meg, Amy, and Jo.

ANSWER: **March** family

[M] The March family are the titular female group of this novel by Louisa May Alcott.

ANSWER: **Little Women**

[E] In *Little Women*, Jo starts one of these institutions for boys called Plumfield. Children are taught in classrooms in these institutions.

ANSWER: **schools** <American Literature–Ganguli>

9. This word names a "number" that indicates the charge that an atom would have if it entered an ionic state. The O.I.L. and L.E.O. mnemonics are a common method of understanding reactions named for this word. The rusting of iron (*) is the most common example of reactions described by this word. For 10 points, name this term that names a type of reaction in which electrons are lost, the opposite of reduction.

ANSWER: **oxidation** reaction [accept **oxidation** number; prompt on **redox**] <Chemistry–Sivaram>

A certain city's *boule* oversaw the process for dealing this kind of punishment, which required 6000 votes to be carried out. For 10 points each:

[M] Name this kind of punishment, which was dealt to people who were *ostracized* in ancient Athens.

ANSWER: **exiled** [or **banished** or **expelled**; accept **ostracized** before mentioned]

[H] This man's father, Xanthippus, was recalled from exile during the Second Persian invasion of Greece. This leader during Athen's Golden Age delivered a notable funeral oration during the Peloponnesian War.

ANSWER: **Pericles**

[E] Voting on *ostracisms* was done using shards of this material. This material is fired in kilns to make artworks like pots and vases.

ANSWER: **pottery** [accept **ceramics** or **clay**] <Ancient/Other History–Kapadia>

10. **One character in this play declares that “parting is such sweet sorrow” in a scene where she asks “what’s in a name?” Another character in this play, who initially loves Rosaline, is banished from Verona for killing (*) Tybalt. Mercutio wishes a plague on the feuding Montague and Capulet families in this play. For 10 points, name this Shakespeare tragedy about a pair of “star-cross’d lovers.”**

ANSWER: **Romeo and Juliet** <British Literature–Ganguli>

Herpetologists often study this class of animals. For 10 points each:

[M] Name this class of cold-blooded animals, which lay eggs.

ANSWER: **Reptiles** [accept **Reptilia**]

[E] While some of these reptiles are venomous, most hunt their prey by using constriction. These reptiles include the Black mamba and the King cobra.

ANSWER: **Snakes**

[H] Snakes often undergo this process where they shed their skin, also known as ecdysis.

ANSWER: **molting** <Biology–Chae>

11. **One feature created by these entities have “lateral” and “terminal” types. The Matterhorn was formed by the diverging erosion of these entities. These entities create U-shaped valleys and cirques and leave behind their namesake till in moraines. (*) The calving of one material forming these features creates icebergs. For 10 points, name these large bodies of moving ice.**

ANSWER: **glaciers** <Other Science–Sareddy>

In this series, the Scout Regiment maneuvers with ODM gear to strike the napes of the beings that partially title this series. For 10 points each:

[H] Name this manga series, whose protagonist is Eren Jaeger. In this series, humanity is pushed to the brink of extinction by the large humanoid steam-emitting beings that partially title this series.

ANSWER: **Attack on Titan** [or **AOT** or **Shingeki no Kyojin**]

[E] The remaining humans live behind Maria, Rose, and Sina, concentric examples of these large defensive structures, typically made out of stones or bricks.

ANSWER: **wall**

[M] The appearance of the largest and most recognizable titan, the Colossal, completely lacks this feature, which is removed in the process of flaying.

ANSWER: **skin** [or **skinned** or **skinless**] <Popular Culture–Kapadia>

12. **One of these musical entities named for the city of Naples can serve as a predominant. One of these musical entities denoted by the Roman numeral “V” often leads to one of these entities labeled “I.” Types of these musical entities include (*) major, minor, diminished, and augmented.** Guitarists and pianists often play these musical entities as accompaniment for vocalists. For 10 points, name these musical entities consisting of multiple notes that sound simultaneously.

ANSWER: **chords** <Auditory Fine Arts–Maiorana>

This novel begins by declaring “a single man in possession of a good fortune must be in want of a wife.” For 10 points each:

[M] Name this novel, in which members of the Bennett family marry George Wickham and Charles Bingley.

ANSWER: ***Pride and Prejudice***

[E] *Pride and Prejudice* is by this author, who also wrote *Emma*.

ANSWER: Jane **Austen**

[H] This character, who owns Pemberley, marries Elizabeth Bennett at the end of *Pride and Prejudice*.

ANSWER: **Fitzwilliam Darcy** [accept either underlined part] <British Literature–Ganguli>

13. **This character, who discusses Romeo and Juliet with two nuns, asks the cab driver Horwitz “where do ducks go when the lake freezes?” Jane Gallagher is a love interest of this character, who is the brother of Allie, D.B., and Phoebe.** (*) Pencey Prep expels this character, who dislikes “phonies.” For 10 points, name this protagonist of J.D. Salinger’s *The Catcher in the Rye*.

ANSWER: **Holden Caulfield** [accept either underlined portion] <American Literature–Ganguli>

The first of these campaigns was called for with chants of “Deus Vult,” which translates to “God wills it!” For 10 points each:

[E] Name these military campaigns that saw Christian forces retake control of the Holy Land from Muslims.

ANSWER: **Crusades**

[H] The First Crusade ended when Christian soldiers captured and massacred the defenders of this city. Saladin’s reconquest of this city in 1187 sparked the Third Crusade.

ANSWER: **Jerusalem**

[M] During the Third Crusade, English forces were led by the first English king of this name, nicknamed “the Lionheart.” The third English king of this name supposedly murdered the “Princes in the Tower.”

ANSWER: **Richard** [accept **Richard I** or **Richard III**] <European History–Rao>

14. **The Passaic River flows over a 77-foot waterfall in this state’s city of Paterson. Coastal cities in this state include Cape May and the popular gambling destination of Atlantic City. Residents of this state’s cities of Hoboken and (*) Newark often commute to New York City across the Hudson River.** For 10 points, name this Eastern seaboard state sandwiched between New York and Pennsylvania.

ANSWER: **New Jersey** <Geography–Maiorana>

The Second Law of Thermodynamics is violated by this thought experiment. For 10 points each:

[H] Name this entity that controls a massless door between two chambers.

ANSWER: **Maxwell’s Demon**

[M] The Second Law of Thermodynamics states that, in a closed system, this quantity cannot decrease. Symbolized S, this quantity is a measure of disorder in a system.

ANSWER: **entropy**

[E] The First Law of Thermodynamics is a restatement of the law of conservation of this quantity. This quantity has kinetic and potential varieties.

ANSWER: **energy** <Physics–Chae>

15. **The protagonist of this novel thinks the Balsam of Fierabras has healing powers and is defeated in a fight by the Knight of the White Moon. This novel's title character is infatuated with the peasant girl Dulcinea and rides the horse (*) Rocinante.** The squire Sancho Panza appears in this novel, which is titled for a self-proclaimed knight who attacks windmills. For 10 points, name this novel by Miguel de Cervantes.

ANSWER: Don Quixote [or *The Ingenious Gentleman Don Quixote of La Mancha* or *El ingenioso hidalgo Don Quijote de la Mancha*] <European Literature–Ganguli>

In one opera, a character who participates in this sport sings the “Toreador Song.” For 10 points each:

[M] Name this sport, whose practitioners use a red cloth to attract a large animal.

ANSWER: bullfighting

[H] The “Toreador Song” appears in this opera, where it is sung by Escamillo. Escamillo confesses his love for the title woman in Act IV of this opera.

ANSWER: Carmen

[E] After being given one of these objects by Carmen, Don José sings a song named for them. In Léo Delibes' opera *Lakmé*, two characters sing a duet named for these plants, including roses, which they pick by a river.

ANSWER: flowers <Other Fine Arts–Maiorana>

16. **One region of this organ contains a part of dentate granule cells called mossy fibers. In this organ, Schwann cells create a layer of myelin over a certain type of cell. The cavity in which this organ resides is filled with (*) cerebrospinal fluid to protect it and remove waste.** Processes like breathing are controlled in this organ's namesake stem. For 10 points, name this organ inside the skull in which neurons are used to store information

ANSWER: Brain <Biology–Feldman>

Hand-carved terraces for this crop were made by the Ifugao people at a site called Banaue. For 10 points each:

[E] Name this crop often grown in paddies. The basmati and sticky varieties of this crop are popular in Indian and Thai cuisines, respectively.

ANSWER: rice

[H] The Banaue Rice Terraces can be found in the Cordilleras, a mountain range on this country's island of Luzon. The Moro Insurgency is an ongoing conflict on this country's island of Mindanao.

ANSWER: The Philippines

[M] Many rice terraces can also be found on the island of Bali in this large country. A critically endangered species of orangutan is endemic to this country's island of Sumatra.

ANSWER: Indonesia <Geography–Sareddy>

17. **This leader declared that he was “prepared to die” for his ideals during the Rivonia Trial. For part of a 27 year prison sentence, this leader labored in a lime quarry while on Robben Island. This leader shared the 1993 Nobel Peace Prize with (*) F. W. de Klerk for helping to end apartheid.** For 10 points, what leader was the first black president of South Africa?

ANSWER: Nelson Mandela <World History–Kapadia>

Rachel Elizabeth Dare kisses this character in *The Last Olympian* and tells him to “go kill some monsters for me.”
For 10 points each:

[E] Name this son of Poseidon, who suffers from ADHD and dyslexia. This character “and the Olympians” titles a series by Rick Riordan that begins with *The Lightning Thief*.

ANSWER: **Percy Jackson** [accept either underlined portion]

[M] This daughter of Athena is Percy’s girlfriend and calls him “seaweed brain.” This character was brought to Camp Half-Blood by Thalia Grace and Luke Castellan.

ANSWER: **Annabeth** Chase [prompt on Chase]

[H] Percy considered this daughter of Atlas to be his “biggest what if.” This character, condemned to live on the island of Ogygia for eternity, can’t help but fall in love with heroes, including Leo Valdez and Odysseus.

ANSWER: **Calypso** <Other Literature–Ganguli>

18. During a victory boat parade, Cam Brate caught the Super Bowl trophy that this player tossed to him. At his current team, this player, who briefly retired in February of 2021, reunited with longtime teammate Rob Gronkowski. This player won his (*) 7th Super Bowl ring after defeating the Kansas City Chiefs in 2021, making him the player with the most in NFL history. For 10 points, what long time Patriots quarterback recently announced his retirement with the Buccaneers?

ANSWER: Tom **Brady** <Popular Culture–Rao>

In 1610, Simon Marius independently discovered the Galilean moons. For 10 points each:

[E] Name this planet orbited by the Galilean moons. This largest planet in the Solar System features a Great Red Spot.

ANSWER: **Jupiter**

[H] This assistant of Tycho Brahe suggested the names for the individual Galilean moons. His second law is a result of the conservation of angular momentum, and he determined that the orbits of the planets resemble ellipses.

ANSWER: Johannes **Kepler**

[M] Kepler and Galileo both name one of these devices that utilize refraction. Kepler improved Galileo’s design for these devices by utilizing a convex lens.

ANSWER: **telescope** <Other Science–Chae>

19. A man nicknamed Cato led one of these events in South Carolina named for the Stono River. The participants in one of these events aboard *The Amistad* were defended in court by an elderly John Quincy Adams. A solar eclipse inspired (*) Nat Turner to lead one of these events in Virginia. Plantation owners attempted to prevent, for 10 points, what events in which forced laborers overthrew their masters?

ANSWER: **slave revolt** [accept **rebellion** or **uprising** or **mutiny** instead of **revolt**; prompt on **mutiny** alone]
<American History–Kapadia>

This day comes ten days after Rosh Hashanah and is the holiest day in Judaism. For 10 points each:

[M] Name this Jewish holiday, a “Day of Atonement,” during which fasting is practiced.

ANSWER: **Yom Kippur**

[E] Yom Kippur ends with the blowing of one of these items called the shofar, which is made from the curled bone on a ram’s head.

ANSWER: **horn**

[H] During Yom Kippur, the entirety of this book from the Hebrew Bible is read. This book’s namesake fails to prophesize the destruction of Nineveh when he flees to Tarshish.

ANSWER: Book of **Jonah** <Religion–Kapadia>

20. **Dividing the ideal gas constant by this quantity results in Boltzmann's constant. This quantity which is defined as the number of atoms in twelve grams of carbon-12 is equal to the number of particles in (*) 22.4 liters of gas at standard temperature and pressure. For 10 points, name this constant which is the number of particles in a mole, approximately equal to 6.02 times 10 to the 23rd power.**

ANSWER: **Avogadro's number** [accept **Avogadro's constant**; prompt on variable] <Chemistry–Ganguli>

This country's Prime Minister Kevin Rudd apologized to the "stolen generations" of its indigenous people. For 10 points each:

[E] Name this country that was discovered by Europeans after James Cook's expedition landed at Botany Bay in present-day Sydney.

ANSWER: **Australia**

[M] This was the name given to the indigenous people of Australia.

ANSWER: **Aborigines** [or **Aboriginal** Australians]

[H] The Aborigines often conflicted with these specific people, who were first brought to Australia by the First Fleet. After becoming one of these people, Alfred Dreyfus was sent to live on Devil's Island.

ANSWER: **convicts** [or **prisoners** or **convicted** criminal; prompt on criminal alone] <World History–Sareddy>